

EVIDENTIARY HEARING
BEFORE THE
CALIFORNIA ENERGY RESOURCES CONSERVATION
AND DEVELOPMENT COMMISSION

In the Matter of:)	
)	
Application for Certification)	Docket No.
for the Salton Sea Unit 6)	02-AFC-2
Geothermal Project)	
_____)	

IMPERIAL IRRIGATION DISTRICT
BOARD ROOM
1285 BROADWAY STREET
EL CENTRO, CALIFORNIA

MONDAY, OCTOBER 27, 2003
2:05 P.M.

Reported by:
James Ramos
Contract No. 170-01-001

PETERS SHORTHAND REPORTING CORPORATION (916) 362-2345

COMMITTEE MEMBERS PRESENT

William J. Keese, Presiding Member

Robert Pernell, Associate Member

HEARING OFFICER, ADVISORS

Garret Shean, Hearing Officer

Scott Tomashefsky, Advisor

E.V. (Al) Garcia, Advisor

STAFF PRESENT

Paul A. Kramer, Staff Counsel

Robert Worl, Project Manager

Natasha Nelson

William Walters

Ramesh Sundares Waran

PUBLIC ADVISER

Margret Kim

APPLICANT

Michael J. Carroll, Attorney
Latham and Watkins

Bernard Raemy, Project Development Manager
CalENERGY Operating Corporation

Paul E. Neil
RTP Environmental Associates, Inc.

Jerry P. Salamy
CH2M HILL

EJ Koford
Integrated Engineers and Contractors Corporation

INTERVENORS

Tanya A. Gulesserian, Attorney
Adams, Broadwell, Joseph and Cardozo
California Unions for Reliable Energy

ALSO PRESENT

Carol Roberts
U.S. Fish and Wildlife Service

Jim Kelley
Imperial Irrigation District

Gary Wyatt

Aida C. Gates, District Representative
Senator Denise Moreno Ducheny

Glenna Barrett, Field Representative
Assemblywoman Bonnie Garcia

Tom Lemmon
International Association of Heat and Frost
Insulators and Asbestos Workers

Ayron M. Schoneman
The Coalition of Labor, Agriculture and Business
COLAB

Sam Couchman
Imperial County Office of Employment Training

Anne Mallory, Assistant Superintendent
Imperial County Office of Education

Robertta J. Burns
Imperial County Executive Officer

Eddie A. Lutz
Imperial Irrigation District

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P R O C E E D I N G S

2:05 p.m.

PRESIDING MEMBER KEESE: Good afternoon.

We'll call to order the hearing on the Salton Sea Geothermal project. And we'll start with introductions. I'm Bill Keese, Chair of this Committee; and Robert Pernell, to my left, is the other member of our Committee.

COMMISSIONER PERNELL: Good afternoon.

PRESIDING MEMBER KEESE: Al Garcia, to his left, is his Advisor on the project. And Scott Tomashefsky is mine. Mr. Shean will be handling the proceeding.

At this time I'd like the applicant to identify themselves and our principal witnesses.

MR. CARROLL: Thank you. Mike Carroll with Latham and Watkins on behalf of the applicant. On my right is Bernard Raemy, the Project Manager for the applicant. And to his right is Paul Neil who is our air quality witness today.

UNIDENTIFIED SPEAKER: Good afternoon.

PRESIDING MEMBER KEESE: Staff.

MR. KRAMER: Good afternoon; I'm Paul Kramer, staff counsel. With me is Bob Worl, the

1 Project Manager. We have Will Walters and Natasha
2 Nelson, two of our principal witnesses.

3 PRESIDING MEMBER KEESE: Thank you.
4 Intervenors? Do we have any -- yes, identify --

5 MS. GULESSERIAN: Tanya Gulesserian with
6 CURE on the telephone.

7 PRESIDING MEMBER KEESE: Thank you. Any
8 other intervenor present in person or by phone?
9 Do we have any representatives of government,
10 local agencies? For the record would you please
11 come forward and identify yourself.

12 MR. KELLEY: I'm Jim Kelley with the
13 Imperial Irrigation District. We are a government
14 agency. We are, as part and parcel of this
15 project. But I just wanted to have you recognize
16 the District is here.

17 PRESIDING MEMBER KEESE: Thank you. We
18 just like to set the tone for whoever else is in
19 the audience to know who is here. And, if it's
20 appropriate later to speak, feel free.

21 MR. KELLEY: Okay, thank you.

22 PRESIDING MEMBER KEESE: And that
23 applies to everybody in the audience.

24 Any other representatives of
25 governmental agencies?

1 MS. ROBERTS: Carol Roberts, U.S. Fish
2 and Wildlife Service participating by phone.

3 PRESIDING MEMBER KEESE: Thank you. All
4 right, with that we will hand this over to Mr.
5 Shean.

6 HEARING OFFICER SHEAN: Good afternoon.
7 What we have done in our notice of the evidentiary
8 hearing was to give an order of testimony. And
9 while we are not on the exact mark for the times,
10 we're going to follow it, nonetheless, which will
11 also give us a period for public comment.

12 Let me just indicate to the Commission's
13 Public Adviser could not be here due to the fire
14 and other things. There are a lot of travel
15 constraints. And I understand we have such things
16 for one of the applicant's witnesses, as well. So
17 we'll work with that as best we can.

18 So if there are any members of the
19 public who would like to speak, ordinarily we'd
20 have little blue cards for you, but since she's
21 not here and she's the keeper of the little blue
22 cards, we don't have them. But we'll give you an
23 opportunity to come up and speak, probably at two
24 different points in the meeting.

25 What we propose to do initially is to

1 take from the applicant and then the staff
2 essentially all the uncontested items. And those
3 can be found both in the applicant's application
4 for certification and data responses. And the
5 applicant has handed us now another addendum
6 indicating the various materials it wants put into
7 the record.

8 The purpose for this is we had basically
9 the bulk of the proceedings here had been
10 uncontested after numerous workshops between the
11 applicant and staff and others who are here in the
12 local area, including the CURE representative from
13 northern California.

14 We do have two areas where we will be
15 taking testimony; that is on air quality and
16 public health, as a collective topic, and on
17 biology. And we will get to those very shortly.
18 So what we think we'll do initially is run through
19 these uncontested areas; go the applicant first
20 for its declarations in support of the AFC and
21 data responses, et cetera.

22 Mr. Carroll.

23 MR. CARROLL: On October 17th applicant
24 filed a series of declarations on all of the
25 uncontested areas. We have distributed today for

1 review a supplemental two-page declaration from
2 Bernard Raemy. The sole purpose of that
3 supplemental declaration is to identify some
4 additional exhibits in the uncontested areas that
5 Mr. Raemy is sponsoring that were inadvertently
6 omitted from his prepared testimony filed on
7 October 17th.

8 We do not have any changes to make to
9 the declarations that were filed on October 17th.
10 So we would move admission of the October 17th
11 filings and the supplemental declaration of Mr.
12 Raemy that was presented today.

13 HEARING OFFICER SHEAN: All right, is
14 there objection to the admission of the
15 applicant's filing of October 17th and today's
16 filing of Mr. Raemy's material?

17 MR. KRAMER: No.

18 HEARING OFFICER SHEAN: Hearing none,
19 those two are admitted into the evidence of the
20 proceeding and the record for the basis for the
21 Commission's decision.

22 And that, I think, is that portion from
23 the applicant, right?

24 MR. CARROLL: Yes.

25 HEARING OFFICER SHEAN: All right. The

1 comparable staff material is from parts one, part
2 two and the addendum of the staff's final
3 assessment. And we'll go to the staff now.

4 MR. KRAMER: We would introduce those
5 three documents along with the responses to the
6 Committee questions that we filed on Friday.

7 HEARING OFFICER SHEAN: All right. Is
8 there objection to admission of those into the
9 evidentiary record of the proceeding?

10 MR. CARROLL: No.

11 HEARING OFFICER SHEAN: Hearing none,
12 they are admitted.

13 We also have the final determination of
14 compliance by the local Air District, which on the
15 basis of a discussion at the prehearing conference
16 was to be admitted into the record by stipulation.
17 Is that the position of the applicant and the
18 staff?

19 MR. CARROLL: Yes.

20 MR. KRAMER: I'd just note that after
21 the FDOC was released, there was a one-page
22 letter, it's dated October 7, 2003, from Harry
23 Dillon, that made some minor amendments to AQ1 and
24 AQ28. That should be a part of the FDOC.

25 HEARING OFFICER SHEAN: All right,

1 incorporating that October letter from the
2 District, is there objection to taking the FDOC by
3 stipulation?

4 MR. CARROLL: Not from applicant.

5 MR. KRAMER: No.

6 HEARING OFFICER SHEAN: All right. They
7 are admitted to the record.

8 The next thing we have the testimony
9 that relates to air quality and public health; we
10 have two areas of contest between the applicant
11 and the staff related to the operating ammonia
12 emissions and the commissioning hydrogen sulfide
13 emissions.

14 And with that we'll go initially to the
15 staff for the introduction of your witnesses and
16 their testimony.

17 MR. KRAMER: Okay, we need to have Mr.
18 Walters and Mr. -- I'm sorry, Ramesh, I'm having
19 trouble with your last name.

20 MR. SUNDARES WARAN: Sundares Waran.

21 MR. KRAMER: -- Sundares Waran sworn.
22 Mr. Sundares Waran is on the telephone.

23 HEARING OFFICER SHEAN: All right.
24 We'll have the reporter do that.

25 THE REPORTER: Can you hear me on the

1 phone?

2 MR. SUNDARES WARAN: Yes.

3 MS. ROBERTS: Yes.

4 Whereupon,

5 WILLIAM WALTERS and RAMESH SUNDARES WARAN

6 and CAROL ROBERTS

7 were called as witnesses herein, and after first

8 having been duly sworn, were examined and

9 testified as follows:

10 MR. KRAMER: I gather that was Carol

11 Roberts who was also sworn.

12 DIRECT EXAMINATION

13 BY MR. KRAMER:

14 Q Okay, Mr. Walters, could you briefly
15 summarize the aspects of your testimony for the
16 public -- and that's the aspects other than the
17 ammonia and the H2S issues, just in a couple
18 minutes?

19 MR. WALTERS: Certainly. Staff first
20 identified the setting of the project and
21 identified the current air quality situation, the
22 nonattainment for ozone and nonattainment for PM10
23 and attainment for other pollutants in the area of
24 the project.

25 We analyzed the project emissions and

1 the modeling that was done for the project. We
2 identified some issues with the H2S, emissions for
3 both certain temporary operations and initial
4 commissioning.

5 The applicant made some modifications to
6 their design and some modifications to some
7 operating procedures, flow rates, that brought
8 most of the emissions and modeled impacts to below
9 what we considered significant.

10 We also dealt with some issues in terms
11 of construction requirements with the applicant
12 and came to agreement on construction conditions
13 to deal with the potential for significant impacts
14 for construction.

15 The other issue that we were dealing
16 with is the ammonia emissions, potential for
17 significant impact due to over 2750 tons per year
18 of ammonia emissions from the project, over eight
19 tons a day of ammonia emissions that could result
20 in additional secondary PM10 formation.

21 In coming up with all of these the staff
22 came up with a number of our own conditions of
23 certification to deal with construction issues, to
24 deal with the ammonia issues, as well.

25 We worked with the District to come up

1 with conditions to deal with the ammonia -- well,
2 actually for the H2S emissions, and to deal with
3 the primary criteria pollutants.

4 The emission reduction credits, we have
5 agreement that the emission reduction credits for
6 the criteria pollutants, H2S and PM10 are
7 appropriate for operating emissions for the
8 facility.

9 And so essentially our finding for the
10 project was that we had what we considered two
11 unmitigated significant impacts. One was for
12 initial commissioning. While we cannot find a
13 reasonable control method to control the H2S
14 emissions during all the operations of initial
15 commissioning, and our modeling results are
16 showing impacts that are higher than the
17 California ambient air quality standard in
18 specific locations near the project site, during
19 those initial commissioning operations.

20 And the other significant impact we're
21 finding is, again, in fact we haven't been able to
22 find a reasonable way of mitigating the ammonia
23 emissions at this point from the project, and we
24 believe that the additional potential for PM10,
25 secondary PM10 formation is significant. And

1 therefore we have added conditions to potentially
2 require mitigation in the future if such
3 mitigation, whether it's supplanting the water
4 that's currently being used in the cooling tower,
5 which is the primary source of the ammonia; or if
6 there's a control technology that we consider to
7 be cost effective becomes available in the future.
8 We've added that as a condition.

9 MR. KRAMER: Now, let's talk about those
10 two issues separately. First, ammonia. Does the
11 Air District regulate ammonia as an emission from
12 this project?

13 MR. WALTERS: No, not specifically.
14 Ammonia is not provided for in the regulations.

15 MR. KRAMER: And so they had no
16 conditions as far as ammonia goes?

17 MR. WALTERS: None that I can think of
18 specifically. They may have noted the emissions
19 of ammonia, but there were no requirements of
20 specific mitigation required under their
21 conditions.

22 MR. KRAMER: Okay, so then staff's
23 concerns were arising out of its CEQA analysis, is
24 that right?

25 MR. WALTERS: That's correct.

1 MR. KRAMER: And how does ammonia lead
2 to the formation of PM, let's in very simple
3 terms, what specific reaction we're talking about.

4 MR. WALTERS: Well, essentially ammonia
5 will react with a number of things. Primarily
6 with nitrate essentially from NOx, which is
7 converted to nitric acid, which then reacts to
8 create ammonia nitrate. It also reacts with SO2
9 which is converted to sulfuric acid, which then
10 reacts with the ammonia to create ammonium sulfate

11 There's some other things it can react
12 with, but those are the two major ones.

13 MR. KRAMER: And is that reaction just a
14 one-way reaction, or does it sometimes reverse
15 itself?

16 MR. WALTERS: Actually both are
17 reversible. In particular ammonium nitrate is
18 noted to be reversible and at higher temperatures
19 you get less formation; at lower temperatures you
20 can get more formation due to the reaction
21 mechanics.

22 So, essentially as the temperature rises
23 that particulate will actually go back in the
24 other direction; and as it cools you'll actually
25 get more formation in the same air body.

1 MR. KRAMER: So it may change its state
2 several times going to particulate back to the
3 individual constituents, components, and then
4 recombining again at some other point?

5 MR. WALTERS: Right. The equilibrium
6 will keep changing as the atmospheric conditions
7 change.

8 MR. KRAMER: Okay. What does the term
9 ammonia rich mean?

10 MR. WALTERS: Ammonia rich, generally
11 the terminology is meant to say there is more than
12 enough ammonia to react with all of the available
13 nitric acid and sulfuric acid in the atmosphere to
14 create secondary particulate.

15 MR. KRAMER: Does that mean that the
16 reaction is complete and there's no more ammonia
17 nitrate, or other component available for
18 reaction?

19 MR. WALTERS: Not necessarily. It
20 depends again on the conditions. For example, if
21 the conditions aren't all that favorable for
22 forming ammonium nitrate you don't get complete
23 conversion. And additional ammonia will actually
24 help push the reaction a little bit further than
25 it is at the current time.

1 So, for example, in looking at the
2 exhaust that we have from the cooling towers, the
3 exhaust is a moist exhaust with a high level of
4 ammonia which then is essentially mixed with the
5 ambient air that comes through the cooling tower,
6 which has whatever is the current ambient levels
7 of NOx and SOx, which then, since it is more
8 humid, will tend to react more into sulfuric acid
9 and nitric acid, which then since there is such a
10 high amount of ammonia, can react further.

11 But even if it weren't to react more,
12 the fact is there's still going to be a little bit
13 of nitric acid, sulfuric acid that is unreacted
14 because their reaction doesn't proceed all the way
15 at say a warmer, lower relative humidity
16 condition.

17 And so additional ammonia will help push
18 the reaction a little bit further. That actually
19 can be illustrated in one of the documents that
20 was used in actually the applicant's testimony.
21 And I don't know if you want to go over those
22 figures.

23 MR. KRAMER: Yeah, we'll get to that in
24 a moment. Now, the applicant has said that
25 because the area is ammonia rich they don't expect

1 to have the emission of more ammonia by this
2 project to lead to any increase in particulate
3 formation, correct?

4 MR. WALTERS: Yes, yes, they have.

5 MR. KRAMER: And do you agree with that
6 position of theirs?

7 MR. WALTERS: No, I don't. For a couple
8 of reasons. Number one, I'm not sure that there's
9 really any proof that the area is consistently and
10 always ammonia rich. There really isn't any
11 actual data from this particular air basin to
12 substantiate that.

13 It may be ammonia rich at times, and
14 then it may not at other times, depending on where
15 the air is coming from, for example. If the
16 transport is mainly coming from the South Coast
17 air basin, you know, you can make an argument that
18 the air is probably, at least the incoming air
19 would not be ammonia rich.

20 MR. KRAMER: Is it possible for air to
21 transport from the South Coast?

22 MR. WALTERS: Certainly. The South
23 Coast has been looked at for causing problems as
24 far away as (inaudible) Canyon.

25 The second part of my argument --

1 MR. KRAMER: Okay.

2 MR. WALTERS: -- is the fact that what
3 we have is a reversible reaction, and to assume
4 that a reversible reaction always goes over into
5 completion isn't exactly correct. Chemical,
6 essentially it's going to go to a certain level or
7 certain point to reach equilibria, but as you add
8 more of the reactants you tend to push the
9 reaction.

10 You kind of think of it as there's
11 pressure on either side of the equation for
12 reversible reaction. The pressure on this side
13 being particulate, it wants to go back into the
14 gaseous phase. Pressure on this side being the
15 reactants, the acid gases and the ammonia that
16 want to go to particulate.

17 And as you add more ammonia on this side
18 you create pressure which creates more
19 particulate. The exact amounts of that, you know,
20 are the --, because exact equilibria constants
21 under all the different conditions aren't known.
22 But there will be, in my view, some additional
23 secondary particulate formed, particularly under
24 winter conditions or likely under winter
25 conditions here.

1 MR. KRAMER: So, are you saying that
2 even if the area is ammonia rich, that you would
3 expect additional ammonia emitted from this
4 project to result in additional particulate
5 formation?

6 MR. WALTERS: Yes, I would.

7 MR. KRAMER: And the staff assessment
8 didn't predict a particular amount of ammonia that
9 would result, correct?

10 MR. WALTERS: That's correct.

11 MR. KRAMER: Was that an inadvertent
12 omission or were you unable to come to a
13 particular estimate?

14 MR. WALTERS: We really weren't able to
15 come to a particulate estimate because of the
16 reaction mechanism and equilibrium constant is
17 affected by so many different variables, relative
18 humidity, temperature that the exact amount just
19 isn't known. The various equilibrium constants,
20 number one, aren't available, so we really can't
21 do that kind of calculation.

22 But we can make an assessment that there
23 will be some additional. The exact amount,
24 whether it's 1 percent of the ammonia will
25 convert, or 10 percent, we can't really say.

1 MR. KRAMER: If 1 percent converted what
2 would be the amount of particulate matter that
3 would result?

4 MR. WALTERS: -- my testimony, which I
5 don't have right on the tip of my tongue, but I
6 think it's a little over 100 tons.

7 MR. KRAMER: Okay. And is this area in
8 attainment for particulate matter?

9 MR. WALTERS: No, the area is right now
10 designated as moderate nonattainment. And there's
11 a court ruling now that may force it into serious
12 nonattainment. The Ninth Circuit just made a
13 finding that they believe that the area should be
14 redesignated and is essentially telling EPA to do
15 that.

16 I don't know if that's going to be the
17 final decision on the matter, but that's the
18 current last legal challenge on the issue.

19 COMMISSIONER PERNELL: Excuse me. Are
20 you talking about the entire South Coast? What
21 area are you talking about?

22 MR. WALTERS: I'm talking about the
23 Imperial County --

24 COMMISSIONER PERNELL: Just Imperial
25 County?

1 MR. WALTERS: Imperial County, yeah.

2 MR. KRAMER: We have copies of that
3 decision. The case is Sierra Club v. The United
4 States Environmental Protection Agency. The
5 decision was filed October 9th of 2003.

6 So then the Air District, without this
7 project it has more particulate in the air than it
8 should by the federal standard, correct?

9 MR. WALTERS: That's correct.

10 MR. KRAMER: And then this would just
11 add to that, make it worse?

12 MR. WALTERS: Right. That's our
13 finding, that it would make it worse. Maybe not
14 an every day or every hour, but at times when it's
15 cool and moist we would expect that more
16 particulate would be formed.

17 MR. KRAMER: The applicant referred to a
18 study that was regarding the area around Denver,
19 Colorado, correct?

20 MR. WALTERS: That's correct.

21 MR. KRAMER: Is that the study you
22 mentioned a minute ago?

23 MR. WALTERS: Yes, it is.

24 MR. KRAMER: Okay. They cited that
25 study for the proposition that there would be no

1 additional particulate created.

2 MR. WALTERS: Right. And I believe the
3 study even says that. But you have to take it in
4 reference to what the study --

5 MR. KRAMER: Let me stop you for a
6 minute and pass out the -- this is a copy of a
7 portion of that study.

8 COMMISSIONER PERNELL: Mr. Kramer, are
9 you going to pass out the Ninth Circuit decision,
10 also?

11 MR. KRAMER: In fact, Bob, why don't you
12 come back and we can do that now, too.

13 (Pause.)

14 MR. KRAMER: Do we need to number these
15 documents, these exhibits?

16 HEARING OFFICER SHEAN: No, just
17 identify them by their title.

18 MR. KRAMER: Okay. The study -- I've
19 already identified the court case. The study is
20 called, Northern Front Range Air Quality Study
21 Final Report, dated June 30, 1998. The document
22 is, I think, 400 pages. I could email anybody a
23 PDF file if they really wanted to see it all. But
24 we have just reproduced section 8 entitled,
25 Ammonium nitrate equilibrium.

1 And, Mr. Walters, did you find in this
2 study support for the proposition that netting
3 ammonia from the emissions from this plant would
4 cause additional particulate, or would not cause
5 it, as the applicant suggests?

6 MR. WALTERS: Yes. Actually there are
7 three figures in the study which show what happens
8 when you change the amount of ammonia at different
9 temperatures and relative humidities.

10 Those figures are figure 8.2-2, 8.2-3,
11 and 8.2-4. Now what these --

12 MR. KRAMER: What pages are those on?

13 MR. WALTERS: Those are on pages 8-7
14 through 8-9.

15 MR. KRAMER: Would you try to explain
16 for us what these graphs in front of us, what they
17 mean?

18 MR. WALTERS: What they're basically
19 showing is the amount of particulate nitrate that
20 would essentially convert, the fraction that would
21 convert at different temperatures based on the
22 different molar ratio of ammonia to I believe it's
23 nitric acid. But essentially it relates to how
24 much ammonia is in the air.

25 And, as you can see, and I don't know

1 which one everybody's looking at, but if we look
2 at figure 8.2-2 the first one, which is for 80
3 percent relative humidity, you can see when you
4 have much more ammonia, when the ratio is very
5 high, you get formation that occurs at warmer
6 temperatures and at any given temperature there's
7 considerably more fraction formed than at lower
8 temperatures.

9 That would happen for, say we only have
10 50 percent available ammonia, so basically an area
11 that would not be ammonia rich, or even one that's
12 at two-to-one versus ten-to-one, you can see
13 there's a considerable amount of additional
14 nitrate formed at the same given condition.

15 Essentially all you need to do is take a
16 look, for example, if you look at the 20 degree
17 centigrade line, you can look as each of the
18 subsequent parts from the figures go up you cross
19 each of these different curves. And each of these
20 different curves start from the .5 to the 1 ratio,
21 meaning that's an ammonia lean. So you're not
22 getting a lot of conversion; it's a very low
23 conversion at 20 degrees.

24 But as you go higher and higher when you
25 have more and more ammonia, well above, you

1 know, -- considered ammonia rich. Ammonia rich is
2 just above one-to-one. The amount of formation
3 goes up dramatically until your formation is
4 almost 90 percent at a ten-to-one ratio.

5 So, essentially it's this figure that
6 indicates that when you're in a non-ideal -- when
7 I say non-ideal, I think I need to go back and
8 kind of give you some background to what this
9 study did in the first place.

10 The study was specifically for events
11 that were occurring in the winter in Denver. Very
12 cold temperatures. The temperatures, ground-level
13 temperatures during this study were in the range
14 of -12 to -25 degrees Centigrade. Obviously
15 nothing we would see here.

16 Under those temperatures you can see, if
17 you take a look at any of the charts, as the
18 temperature gets very cold and you're at a one-to-
19 one or better, the lines all -- the curves all
20 tend to converge. There's not a lot of
21 differentiation in the amount of particulate that
22 will be formed.

23 But when you get in conditions where
24 it's warmer than -12 or even, in fact, zero, you
25 can see that the amount of ammonia does play a

1 role in how much conversion will actually occur.

2 MR. KRAMER: More ammonia gives you more
3 particulate?

4 MR. WALTERS: Right. Because
5 essentially what's not happening is you don't get
6 a complete reaction at the higher temperatures and
7 at the lower relative humidities. But whereas at
8 the really low temperatures of this particular
9 study they were saying essentially almost a
10 complete conversion.

11 And so their study indicated that
12 additional ammonia would not create additional
13 nitrate. Unfortunately those are not the same
14 conditions we're going to see here.

15 MR. KRAMER: 40 degrees Celsius, that's
16 about 104 Fahrenheit, is that correct?

17 MR. WALTERS: Yes, that's correct.

18 MR. KRAMER: And that's closer to the
19 summertime temperatures here?

20 MR. WALTERS: Right.

21 MR. KRAMER: Okay. Did you look at any
22 other studies in forming your conclusions?

23 MR. WALTERS: Well, I found some other
24 studies that essentially use the same methodology
25 as this study, which is if you look on page 1 it

1 identifies the simulating composition of
2 atmospheric particles at equilibrium scape method.

3 There is another study that was done for
4 the southeastern U.S., where --

5 MR. KRAMER: Let me show you a document.
6 Is this that study? It's entitled, Effects of
7 Changes in Sulfate Ammonia and Nitric Acid on
8 Particulate Nitrate Concentrations in the
9 Southeastern United States.

10 MR. WALTERS: Yes, that's correct.

11 MR. KRAMER: Okay, the author is Charles
12 Blanchard and George Hidy.

13 MR. WALTERS: Right.

14 MR. KRAMER: I think we have -- we have
15 fewer copies of this, but I think there's enough
16 for each member of the panel. And Mr. Carroll
17 already received one earlier.

18 What did this study contribute to your
19 opinion?

20 MR. WALTERS: Well, using the general
21 same methodology as the Denver study, this study
22 indicated that additional ammonia would create
23 additional particulate. I believe the area was
24 generally considered not to be ammonia rich, which
25 may or may not be the case in this particular air

1 basin.

2 But it shows the fact that there is a
3 differentiation in terms of, you know, these
4 different studies and what their conclusions are.
5 The most important part, I think, of any of these
6 studies is the fact that none of them are for
7 Imperial County. So while we can try to point to
8 a study and its conclusions, I think we need to
9 look at the basis for the conclusions more than
10 the fact that, oh, in Denver they said additional
11 ammonia wouldn't create a problem. Or in a
12 different place they say, well, additional ammonia
13 won't create another problem.

14 Because you have to take the context of
15 each of the studies first to figure out well, what
16 was that study trying to do.

17 In Denver that study was trying to
18 figure out what was happening during extreme
19 events in the winter, events that are not similar
20 to anything that will occur here.

21 In southeastern U.S. the study may
22 indicate an increase that is related more to an
23 area that's less ammonia rich than this basin may
24 be or may not be. Again, we don't really know for
25 sure because we don't have a good enough sampling

1 basis to determine whether or not this area is
2 truly ammonia rich.

3 MR. KRAMER: In determining the
4 particulate -- let me start over. In your
5 examination of the conversion of ammonia is it
6 appropriate to use annual averages, some of the
7 factors like temperature or moisture, in making
8 your determination?

9 MR. WALTERS: No, because the reaction,
10 you know, is continuous; and it's occurring with
11 whatever the current conditions are. So, trying
12 to figure out what the conditions are, really,
13 over time and how they'll affect at any particular
14 time is important.

15 We're dealing with standards that
16 aren't -- well, PM10 standard, there is an annual
17 standard, but we're also dealing with a 24-hour
18 standard for both PM10 and the new PM2.5 standards
19 that are coming online.

20 So we have to deal with both shorter
21 term standards as well as the annual standard.
22 But even an annual average, it doesn't make sense
23 either for determining whether or not an area is
24 ammonia rich or for determining whether or not an
25 area is going to have any reaction. Because it

1 really depends on what are the conditions at the
2 exact time on that particular day.

3 And it's our contention that there will
4 be days when the conditions are going to be
5 favorable for the additional ammonia from this
6 plant to create additional secondary particulate,
7 secondary fine particulate.

8 MR. KRAMER: Could you briefly -- you've
9 touched on your condition AQC13 already -- could
10 you explain again what the goal of that condition
11 is?

12 MR. WALTERS: The goal of the condition
13 is to try to mitigate the ammonia emissions from
14 this plant if it becomes cost effective. And that
15 can be done either through the substitution of the
16 condensate that's used in the cooling towers,
17 which are the source of the ammonia; or through
18 the addition of a control technology, again if
19 it's considered cost effective.

20 Our cost determination was fairly
21 favorable. It's \$500 a ton, which if we were to
22 relate that to say what South Coast requires for
23 PM10 through its priority reserve, would be
24 something like one-three-hundredth or something,
25 one two-hundred-and-fiftieth of the cost.

1 MR. KRAMER: So South Coast costs would
2 be roughly what? Per ton?

3 MR. WALTERS: I believe it's on the
4 order of 132-thousand.

5 MR. KRAMER: Okay, so your condition
6 says if the cost gets to \$500 or below a ton, with
7 some measure that's not currently available today,
8 then they need to impose it?

9 MR. WALTERS: Correct.

10 MR. KRAMER: -- to carry it out?

11 MR. WALTERS: Correct. And the
12 condition requires them to essentially assess
13 technology and water supply sources first two
14 years after initial commissioning, which would be
15 about four to five years from now. Then every
16 five years after that.

17 MR. KRAMER: Okay, let's turn to H2S.
18 Could you briefly -- I gather the applicant
19 submitted some modeling with their application for
20 certification and you reviewed that, correct?

21 MR. WALTERS: Yes, I did.

22 MR. KRAMER: Did you base your
23 conclusions solely on their modeling, or did you
24 conduct some modeling of your own?

25 MR. WALTERS: I conducted some modeling

1 of my own to go along with their modeling
2 analysis. What I did is I went a little bit
3 further than what they did with their modeling.

4 Essentially they modeled, I believe it
5 was five different scenarios from the initial
6 commissioning. There are a number of different
7 scenarios. I actually modeled all the different
8 scenarios up to the point where emissions become
9 the same as regular operating emissions.

10 And took a look at a frequency or
11 likelihood, based on the fact it's only a 14-day
12 event, with those modeled impacts from each of the
13 different ones. And also identifying the length
14 of each of those activities, whether it's an 18-
15 hour activity, whether it's a 24-hour activity,
16 six-hour activity, what the frequency of each of
17 those activities would be. The likelihood of
18 actually having what we consider a significant
19 impact which would be an exceedance of the
20 California ambient air quality standard.

21 And in doing that we were able to
22 generally identify the fact it was less than 50
23 percent for most areas there would be that kind of
24 high level of H2S emissions, not that it wouldn't
25 happen, but the likelihood would be low.

1 However, we still found that at Obsidian
2 Butte and up in the elevated areas of Rock Hill,
3 which are in the Sonny Bono Wildlife Refuge, that
4 we still did expect, even on average, just using
5 average met conditions, that there would be
6 exceedances that would occur during the initial
7 commissioning.

8 MR. KRAMER: And Obsidian Butte is not
9 generally visited by the public, right?

10 MR. WALTERS: That's my understanding.

11 MR. KRAMER: But Rock Hill is?

12 MR. WALTERS: Yeah, I believe that I've
13 seen numbers something like 10,000 people a year
14 at least go up to the top of Rock Hill.

15 MR. KRAMER: Tourists and casual
16 visitors?

17 MR. WALTERS: Bird watchers, et cetera,
18 yeah.

19 MR. KRAMER: Can you explain the ambient
20 air quality standard and what it's based upon?

21 MR. WALTERS: The California ambient air
22 quality standard is a one-hour standard for H2S.
23 It's general basis was based on odor impact. And,
24 in fact, it is related to the mean odor threshold,
25 meaning that 50 percent, essentially 50 percent of

1 the people would be able to smell that level,
2 which is 42 mcg/cubic meter.

3 The lower odor threshold is more like 7
4 to 10 mcg/cubic meter. And --

5 MR. KRAMER: In other words this would
6 exceed both?

7 MR. WALTERS: This would exceed both.
8 Also we've identified the fact that at levels that
9 are this high there is the likelihood for some
10 minor health effects, headache, nausea, et cetera,
11 can happen in sensitive individuals.

12 MR. KRAMER: So it's more than just
13 wrinkling your nose and saying that doesn't smell
14 so good?

15 MR. WALTERS: Yeah, it can be for
16 particular individuals, yes.

17 MR. KRAMER: The applicant has suggested
18 that the offsets they're creating at some of their
19 other facilities would mitigate this impact that
20 you found for commissioning H2S. Did you agree
21 with that position of theirs?

22 MR. WALTERS: No, because the offsets,
23 while they create maybe an overall net balance,
24 they don't affect the actual impacts that occur at
25 any given location at a given time.

1 So when we're looking at a specific
2 criteria, particularly one that can be determined
3 as a health-based criteria, you know, when looking
4 at enough data, as well as an odor nuisance
5 criteria, the fact that they are lowering
6 emissions over at Leathers won't necessarily
7 affect Rock Hill at the time which the wind is
8 blowing from SSU6 to Rock Hill.

9 Because number one, it's not in the
10 same -- it's not lined up in the same direction,
11 so it's not going to cause any reduction over at
12 Rock Hill. And the same can be said for any
13 other, just about any other impact point unless
14 it's lined up essentially with Leathers.

15 MR. KRAMER: So on a basin-wide basis
16 there might be some balancing going on, but at a
17 specific location it won't necessarily reduce the
18 odor that somebody perceives?

19 MR. WALTERS: Right, at a specific
20 location it won't reduce it. Also, the emissions
21 that -- emission reductions, while on a ton basis,
22 look very favorable to the commissioning, the
23 commissioning is only a 14-day event.

24 So when you take a look at the maximum
25 emissions that occur during commissioning the

1 offsets on a pound-per-hour basis are nowhere near
2 as high from the reduction from Leathers as they
3 will be from the emissions that will occur from
4 the initial commissioning.

5 So there's no balance when you take a
6 look at the short term. In fact, we're dealing
7 with the short-term standard, so that's why we
8 don't consider them to balance out. That's at
9 least one of many reasons why we don't consider it
10 to balance out the situation.

11 MR. KRAMER: Okay, so even if there
12 wasn't this problem of the wind not blowing them
13 both at the same point, are you saying the amount
14 of offsets at Leathers or the other facilities
15 would not be enough in quantity to offset the
16 commissioning emissions?

17 MR. WALTERS: Right, over the short
18 term, over the pound-per-hour maximum emissions
19 that occur during commissioning. They're
20 considerably lower.

21 MR. KRAMER: Because the (inaudible)
22 pounds are coming from a whole annual period,
23 correct?

24 MR. WALTERS: Right, they're coming from
25 a fairly standard state emission reduction through

1 the biofilters that are being added to
2 (inaudible), so it's essentially a fairly constant
3 emission reduction. There would be no peaks, and
4 of course you couldn't match the peaks to the same
5 time you would have the initial commissioning
6 emission peaks anyways, even if there were peaks.

7 MR. KRAMER: But they do serve a purpose
8 for offsetting the operational impacts from the
9 Salton Sea Unit 6 plan, correct?

10 MR. WALTERS: Yes, they do.

11 MR. KRAMER: But those emissions from
12 the plant are during operations, are they the
13 same, higher or lower than the commissioning
14 emissions?

15 MR. WALTERS: On a pound-per-hour basis
16 they're considerably lower, initial commissioning
17 emissions.

18 MR. KRAMER: Okay, one last point. The
19 applicant was suggesting that the Commission
20 doesn't label -- find the construction impacts,
21 dust impacts in other projects, and they cited
22 several examples to be significant impacts. And I
23 believe they were offering that to suggest that
24 the Commission should not find these commissioning
25 H2S impacts significant, as well.

1 Did you consider that argument?

2 MR. WALTERS: I certainly looked at that
3 argument and considered it. The problem with that
4 argument is the fact that the numbers that are
5 presented there don't really take into
6 consideration the fact that staff then requires a
7 significant amount of mitigation through its
8 construction conditions to reduce those impacts,
9 whether they be NOx impacts or PM10 impacts.

10 Also in certain cases some of those
11 impacts were known to be overstated due to the
12 modeling methods. In some cases, for example
13 Magnolia, that doesn't actually reflect the final
14 record. There was additional work done that was
15 not put on the website, that we were able to do
16 additional modeling to show no commissioning
17 emission impacts for NO2 from the project.

18 MR. KRAMER: Is there anything else you
19 would like to add to correct your testimony or
20 augment it?

21 MR. WALTERS: I think the only thing
22 that may be a correction at this point is the fact
23 that right now I'm identifying the areas of
24 moderate nonattainment zone for PM10. And in fact
25 the recent court case says that it probably should

1 be a serious nonattainment zone for PM10.

2 I believe all the rest of the
3 corrections are identified in the addendum.

4 MR. KRAMER: Thank you. No further
5 questions.

6 HEARING OFFICER SHEAN: All right, thank
7 you. Mr. Carroll.

8 MR. CARROLL: No questions for this
9 witness.

10 HEARING OFFICER SHEAN: All right, I
11 have a couple.

12 How has the District addressed the H2S
13 commissioning issue, if at all?

14 MR. WALTERS: They have a series of
15 conditions that require the applicant to do some
16 monitoring during initial commissioning; also to
17 do some notification for the community. I
18 believe, I can't remember if the final one
19 requires them to be in English and Spanish, I
20 think it was originally. Made some modifications
21 to those conditions, well, a couple times.

22 So they are doing certain things that I
23 think will help lower the impact, or at least
24 allow people not to be in areas that may be
25 impacted. However, I'm not sure that it would

1 cover everybody who may be going to Sonny Bono
2 from wherever, whether they're a tourist from
3 Germany, whether they'd be able to know that there
4 was a notice out there.

5 HEARING OFFICER SHEAN: Well, all right.
6 If this notification is to basically advise people
7 that there's a commissioning activity that will be
8 going on, that there may be the odor of H2S, which
9 either as an aesthetic thing you can choose to
10 avoid, or if you think you're in a category that
11 may be sensitive, that is a health thing, you may
12 choose to avoid.

13 Why is that, if you can pinpoint the
14 areas in which this impact is likely to occur why
15 isn't that sufficient if we're trying to avoid
16 impacts to the public?

17 MR. WALTERS: Well, I think the problem
18 is the public that would be impacted in Rock Hill
19 are not just the general population in the area.
20 The public that goes over -- the people that go up
21 to Rock Hill are visitors to Sonny Bono, which can
22 come from all over the state, the United States
23 and foreign visitors who, you know, aren't going
24 to be in the circulation of the local newspapers
25 and may not see any notices that may be posted.

1 HEARING OFFICER SHEAN: Well, is that
2 the limitation of the notification, just in the
3 newspapers?

4 MR. WALTERS: I don't think actually the
5 notification is specified that clearly in the
6 condition. I can take a look.

7 HEARING OFFICER SHEAN: Okay, but if the
8 District were to attempt to address it to the
9 people who, on a daily basis, during the
10 commissioning, were to be in the area, is that
11 satisfactory at least to the point where the
12 people are not exposed to the -- if there's no
13 technological way to avoid the H2S emissions
14 during -- well, let me just ask you that.

15 In your opinion is there no
16 technological means to avoid the H2S emissions
17 during commissioning?

18 MR. WALTERS: In our review of what the
19 applicant provided us we didn't find that there
20 was any cost effective technological method. It
21 is such a short-term event that to put a control
22 technology on something that's only going to occur
23 for a couple hundred hours, a few hundred hours,
24 really isn't a cost effective situation.

25 There may be some things that can be

1 done, but, again, they just wouldn't be cost
2 effective.

3 HEARING OFFICER SHEAN: Okay, well, if
4 there's no technological fix, but the District has
5 in mind an avoidance fix, isn't there reason to
6 essentially try to enhance that if you want to
7 address it, rather than what is your current
8 choice for mitigating it? How do you want to
9 address these exceedances?

10 MR. WALTERS: Well, I guess, you know,
11 based on the staff assessment what we're saying is
12 we don't think that notification will provide a
13 complete assurance of mitigation.

14 So essentially what we're identifying,
15 at least the staff in general is identifying, it
16 would be appropriate to do an override for the
17 short-term impacts.

18 HEARING OFFICER SHEAN: So, even though
19 the District believes that the notification is its
20 means to address this, and will, at least in their
21 opinion, allow them to grant the authority to
22 construct and the permit to operate, the staff's
23 position is that notification and the avoidance
24 mechanism that they're using is insufficient?

25 MR. KRAMER: Well, I think -- if I

1 might, I don't want to offer an objection, but
2 I --

3 HEARING OFFICER SHEAN: Well, you can,
4 but I usually overrule those.

5 MR. KRAMER: Right.

6 (Laughter.)

7 MR. KRAMER: No, I think your question
8 presumes, I just want to clarify, I hear your
9 question presuming that compliance with the
10 District's requirements means that there's no
11 significant impact under CEQA. And that's not
12 what staff's saying.

13 I think staff is saying that sure it's
14 fine to go along with the District's rules and do
15 everything we can, but after all that there's
16 still going to be a significant impact.

17 And the other aspect is that we don't
18 believe that under CEQA we should inconvenience
19 others. In other words, say to somebody, those
20 tourists from Germany, that you're not going to be
21 able to see the birds, which may be the whole
22 reason you came here, because you don't want to go
23 out there because it smells bad.

24 HEARING OFFICER SHEAN: Okay, let's get
25 this straight first. If I understand correctly

1 your witness has indicated that there's going to
2 be an exceedance of the air quality standards.

3 Now are you saying that is a LORS issue
4 or it's a CEQA issue, or it's both?

5 MR. KRAMER: In this particular case
6 it's both. The LORS defines our threshold of
7 significance. But also because there's the health
8 and safety code provision that says you shall not
9 emit a nuisance. Then it's also violating the
10 health and safety code provision.

11 We're recommending overrides for both,
12 of course. We're not saying stop the project --

13 HEARING OFFICER SHEAN: And overrides in
14 the plural, both as to --

15 MR. KRAMER: A LORS override and a CEQA
16 override.

17 HEARING OFFICER SHEAN: I understand.

18 MR. TOMASHEFSKY: I have a question.
19 Going back to your Denver study and the context of
20 what you have in figure 8.2-4 which was one page
21 8-9. Just help walk me through this a little bit.

22 If you -- suppose the commissioning
23 testing was done in the middle of the summer.
24 According to this chart is it correct to assume
25 that there's no issue here?

1 MR. WALTERS: You're talking about two
2 different issues. This is the ammonium nitrate
3 formation. This is from the ammonia. The ammonia
4 occurs every day during normal operation of the
5 project, a little over eight tons a day.

6 The initial commissioning is hydrogen
7 sulfide that only occurs -- well, it occurs during
8 normal operations, as well, but it only occurs in
9 its high quantity, pound-per-hour quantity, during
10 initial commissioning.

11 And the Denver study is not quoted in
12 any way, shape or form to deal with H2S. Because
13 they're two separate issues.

14 MR. TOMASHEFSKY: Thank you.

15 COMMISSIONER PERNELL: I have one
16 question; it's more hypothetical. You were
17 talking about the inconvenience of the smell
18 during startup, am I understanding that right, Mr.
19 Kramer?

20 MR. KRAMER: The commissioning H2S is
21 what we're talking --

22 COMMISSIONER PERNELL: Yeah, yeah, the
23 commissioning, which is the commissioning of the
24 plant, the two-week startup period?

25 MR. WALTERS: Right, the initial

1 startup; not subsequent plant startups, but the
2 first one.

3 COMMISSIONER PERNELL: No, right, the
4 first, the very first. And I guess my question is
5 have you ever been downwind of a waste treatment
6 plant?

7 MR. WALTERS: I've been downwind of
8 several H₂S sources, and sometimes I've gotten
9 headaches from them.

10 COMMISSIONER PERNELL: And how does that
11 handle -- I mean what happens there?

12 MR. WALTERS: To tell you the truth I'm
13 not sure what those agencies do for those kind of
14 things. I don't know if the quantities are above
15 the California ambient air quality standard for an
16 hour from those particulate situations.

17 I think another thing we maybe need to
18 bring out is the fact that when you smell
19 something that's an instantaneous concentration.
20 That's not an hourly average.

21 The likelihood is in using Turner's Law
22 under Gaussian modeling techniques that any
23 particular very short-term, like a second duration
24 while you're doing an inhale, the actual maximum
25 you're going to see from a continual emission

1 source will be five times the impact or the
2 numerical impact provided in the modeling for a
3 one-hour standard.

4 So, for example, if we're showing 50
5 mcg/cubic meter over an hour, you know, the
6 likelihood is if you're standing in that general
7 area you can get a one-second concentration that's
8 as high as 250.

9 So the same thing can happen when you're
10 downwind of other sources, you can get a bad
11 whiff. But what we're dealing with and what our
12 modeling is, is for an hourly average. So we have
13 already -- we're already not considering, to some
14 extent, those really high concentrations, those
15 one second or, you know, one breath concentrations
16 that can occur during the absolute worst case.

17 But now to get back to your question, I
18 guess. You know, those are different situations.
19 You know, I'm licensing this particular power
20 plant and I'm --

21 COMMISSIONER PERNELL: Right, I --

22 MR. WALTERS: -- looking at the
23 regulations --

24 COMMISSIONER PERNELL: -- understand,
25 but I guess my general comment would be when

1 you're dealing with waste treatment plants, for
2 example, there is a certain amount when you start
3 it up, there's a certain amount of odor that
4 you're going to smell simply because of, you know,
5 the commissioning of that plant. And the reason I
6 know this is I've helped build some.

7 So I'm just wondering at, I mean you got
8 to inconvenience for a finite amount of time
9 versus what is needed for some long-term economic
10 stability for a region. And how do you weigh
11 that?

12 MR. WALTERS: Well, --

13 MR. KRAMER: Well, we think that you
14 weigh that in adopting, or considering all the
15 factors and choosing to override the impact.

16 And I think, I'm speculating, but if we
17 were preparing the EIR for this waste plant you're
18 talking about, and it was putting out the same
19 numbers, we'd be recommending that --

20 COMMISSIONER PERNELL: Same sort of --

21 MR. KRAMER: -- that it's significant,
22 it's, you know, short term, and it has all these
23 impacts. But it also has a lot of benefits and
24 recommend overrides.

25 COMMISSIONER PERNELL: All right.

1 MR. GARCIA: Yeah, I have some
2 questions, primarily having to do with the
3 particle formation. And just to make sure that I
4 understand what I think you said, let's say that
5 we have this particular plant that's putting out
6 ten pounds of ammonia.

7 Now that doesn't, I think I heard you
8 say that not all ten pounds of ammonia are going
9 to wind up as being the particulate matter. Some
10 of it is still going to exist as ammonia gas in
11 the air, is that correct?

12 MR. WALTERS: Right. It's very unlikely
13 that 100 percent would convert.

14 MR. GARCIA: Okay. Now, it's my
15 understanding that when the ammonia and the
16 nitrate react to eventually form ammonium nitrate,
17 although that reaction can take place in the gas
18 phase, it takes place at a very small rate. And,
19 in fact, the majority does take place in the
20 aqueous phase, is that right?

21 MR. WALTERS: I think it takes place
22 faster in the aqueous phase. In terms of the
23 amount that takes place at any particular phase
24 would depend on how much aqueous phase would be in
25 the atmosphere.

1 I think the charts that show a lower
2 relative humidity give you an indication of how
3 much will and won't convert, basically the charts
4 I've shown you. That the conversion as the
5 relative humidity goes down, it pushes the
6 reaction the other way. The equilibrium won't go
7 as far. On terms of the actual speed, --

8 MR. GARCIA: The speed's a function of
9 the temperature, the reaction speed --

10 MR. WALTERS: Well, the total -- the
11 total --

12 MR. GARCIA: -- is a function of the
13 temperature --

14 MR. WALTERS: The total conversion is
15 also a function of temperature and relative
16 humidity.

17 But in the plume, itself, of course,
18 it's going to be considerably more moist than the
19 ambient air because it's --

20 MR. GARCIA: Is that --

21 MR. WALTERS: -- coming out of the
22 cooling tower, so it's coming out essentially
23 saturated --

24 MR. GARCIA: And that's where most of
25 the reaction takes place? Correct?

1 MR. WALTERS: Well, the ammonia is in
2 the plume. It's in the cooling tower plume, so
3 that's where it's going to react.

4 MR. GARCIA: Okay. Let me ask another
5 question. I think when you were talking about
6 ammonia rich -- let me take an example. Let's say
7 that we're combusting carbon and oxygen, and take
8 one part of carbon and two parts of oxygen to form
9 carbon dioxide. And those ratios are
10 stoichiometric ratios.

11 If we were to have, in the reaction
12 vessel if we were to have three parts of oxygen
13 and one part of carbon, you'd still make one unit
14 of carbon dioxide. And the excess carbon -- I
15 mean the excess oxygen would be considered kind of
16 like the ammonia rich condition.

17 So, we're basically talking about excess
18 in stoichiometric amounts that could react in the
19 atmosphere, aren't we?

20 MR. WALTERS: Right, the difference
21 being that your example is not a reversible
22 reaction. So it doesn't go back --

23 MR. GARCIA: I intentionally picked
24 that, yes. All right, thanks.

25 HEARING OFFICER SHEAN: Are you familiar

1 with the commissioning period conditions AQ1, 2
2 and 3?

3 MR. WALTERS: Yes.

4 HEARING OFFICER SHEAN: Was the
5 Commission Staff part of the formulation of these?
6 Or were those the District's conditions merely --
7 I mean the title up here says SSU6 District
8 conditions. So, are these representative of
9 District conditions here on this commissioning
10 period conditions?

11 MR. WALTERS: They are the District
12 conditions.

13 HEARING OFFICER SHEAN: Okay. Now, have
14 they included -- I see that the Air Resources
15 Board and EPA have been stricken from these in the
16 supplement or the addendum. And the CPM is left
17 in. Is that right?

18 MR. WALTERS: Correct.

19 HEARING OFFICER SHEAN: Now what -- I'm
20 trying to understand what role the CPM would have
21 in approving the commissioning plan, if it's
22 fundamentally a District function to handle the
23 commissioning as it would be, for example, in a
24 combustion type power plant, and whatever the
25 commissioning plan is. What is the staff going to

1 do with the commissioning plan at this point, as
2 far as you know?

3 MR. WALTERS: I believe we'd review it
4 just to see what was being provided for in terms
5 of the monitoring requirements, in terms of the
6 noticing requirements. A lot of it, right now a
7 lot of the conditions is somewhat open. Exact
8 activities that are to be performed aren't yet
9 known, so I think we would like to be able to
10 review it to make sure that we wouldn't want to
11 ask the District to do something else, something
12 in addition. Or just to say, yeah, we think the
13 applicant is doing an appropriate level of
14 activities during the commissioning.

15 HEARING OFFICER SHEAN: Okay, well, I
16 guess one concern here, sort of from the
17 Commission level, is whether or not if the
18 Commission were to decide, and this is
19 hypothetical, that the notification provisions
20 that the District has are sufficient to meet our
21 concerns, and we believe to meet the law, whether
22 or not the staff is going to come back through in
23 the review and approval of the commissioning plan,
24 and essentially try to reimpose some condition
25 upon the applicant that the Commission, itself,

1 hadn't decided in its decision.

2 MR. WALTERS: Well, we aren't proposing
3 any other conditions. We're proposing that it's
4 appropriate to override. So I think my answer is
5 we would just make sure that these conditions are
6 being followed.

7 HEARING OFFICER SHEAN: Okay. Let me
8 just flip back here to AQC13. And my reading of
9 it is as you explained, but let me just ask you
10 about the last sentence here, because it says,
11 alternatively the applicant may reduce ammonia
12 emissions from other sources including, but not
13 restricted to, the other geothermal power plants
14 in an amount necessary to offset the SSU6 annual
15 emissions as determined through AQC12, right?

16 Has AQC12 changed during any of the
17 closing weeks here of the proceeding prior to the
18 evidentiary hearing, or is it as is shown in your
19 September 3rd part two?

20 MR. WALTERS: I don't believe it's
21 changed. If it has, it would be in the addendum.
22 Essentially all we're doing with AQC12 is
23 establishing what the true baseline emissions are
24 for the plant.

25 Because, you know, at this point we have

1 an ammonia emission estimate. But it's based on
2 assumptions for the amount of ammonia that's
3 actually in the brine. We need to prove out those
4 assumptions and prove out the actual amount of
5 ammonia that's emitted from these various
6 activities, mainly the cooling tower since most
7 emissions come from the cooling tower.

8 HEARING OFFICER SHEAN: Okay, so the
9 idea here is to merely reduce it at its source, if
10 you will, the --

11 MR. WALTERS: Well, the idea is to --

12 HEARING OFFICER SHEAN: -- the
13 constant --

14 MR. WALTERS: Well, the best way is
15 reduce it at its source, but what we're trying to
16 do is reduce it in the quantity that it's being
17 emitted. And that's what AQC12 identifies is what
18 is the true emissions.

19 We don't want to say right now we should
20 reduce it 2750 tons if it turns out that when
21 they're actually looking at the plant and do a
22 nitrogen balance, that the emissions are only 1300
23 tons a year.

24 HEARING OFFICER SHEAN: Okay. And did I
25 understand you to say in your testimony -- of

1 course we'll have a transcript of it -- is that
2 the staff doesn't know how much ammonia is being
3 formed, and you used the 1 percent or 10 percent,
4 and that you don't know. So that there are in
5 this, in getting from the ammonia emissions to
6 what the impact is, numerous variables such as
7 temperature and humidity and essentially the
8 chemistry occurring in the atmosphere before you
9 can come to a conclusion that there is an impact
10 at some point in the modeling exercise?

11 MR. WALTERS: Well, essentially what
12 we're saying is we don't have enough data to come
13 up with a numeric level of impact.

14 HEARING OFFICER SHEAN: So then there's
15 no number?

16 MR. WALTERS: Right.

17 HEARING OFFICER SHEAN: And the
18 mitigation, therefore, -- how should the
19 Commission, if it wants to consider your proposals
20 for mitigation or create its own, how would we
21 understand the appropriate level then if we cannot
22 arrive at a number?

23 Usually if we were talking about instead
24 of H₂S we were talking about NO_x or some other
25 thing like that, the modeling would generally

1 provide us with a number.

2 And so how --

3 MR. WALTERS: I'm not sure it would
4 necessarily provide a number in terms of secondary
5 particulate, depending on how much information's
6 available in a particular basin. Some of that has
7 been done, say, in the Central Valley, there are
8 some numbers that come out.

9 But I'm not sure that the same level of
10 available information is available throughout the
11 state. So I don't think in every case like this
12 we're always going to be able to give you a number
13 per se. And in this case, since we don't have a
14 lot of information, I'm not sure I could give you
15 a number if we were trying to do the same thing
16 for NOx --

17 HEARING OFFICER SHEAN: No, I'm asking
18 what do you -- what does the Commission do in the
19 absence of a number? Because ordinarily we do
20 have a number. In the proceedings up in the
21 Valley we've just done, and we've talked about
22 secondary particulate formation in the areas that
23 are ammonia rich, et cetera, et cetera, you know
24 the cases that have been before the Commission
25 recently. And we've had -- staff has come up with

1 numbers in terms of what they wanted as offsets or
2 something else. And yet we don't have that here,
3 isn't that correct?

4 MR. WALTERS: We don't have anything as
5 definitive or anything the District would
6 recommend or CARB would recommend, either. I
7 think one thing that you should remember in terms
8 of the offsets for all those other cases we're
9 always talking about greater than one-to-one.

10 So, you know, for NOx, for example, or
11 for PM10 or for SO2 for PM10, you know, we're
12 always talking about ratios that are greater than
13 one-to-one when we're looking at those things. I
14 don't think we're looking, we would necessarily
15 look at a greater than one-to-one here.

16 The problem being since we don't know
17 what that number would be less than one-to-one, I
18 think it's more appropriate to mitigate the actual
19 emission on a type-for-type basis, ammonia-for-
20 ammonia. And therefore you've mitigated the
21 problem.

22 HEARING OFFICER SHEAN: Okay. I mean I
23 think I understand. All right.

24 MR. GARCIA: I want to follow up on that
25 a little bit, real quick. And back to my earlier

1 point. Let's say that the unit puts out something
2 like 17 pounds of ammonia. If all that ammonia
3 were to react with nitrate in the air, the
4 equivalent amount of particulate matter would be
5 something like 69 pounds.

6 But we know that not all of the ammonia
7 converts out to particulate matter; a lot of it
8 stays in the (inaudible).

9 The other thing I wanted to make sure
10 that I understand is that the offsets that are
11 purchased are, I'm going to call them delivered.
12 If I buy 10 pounds of offsets that means that
13 somebody at some point has actually reduced
14 emissions by 10 pounds, is that right? Is that a
15 true statement?

16 MR. WALTERS: In fact, there usually is
17 some distance ratio or something else that's
18 actually even a little more than that.

19 MR. GARCIA: Okay. So, if we were to
20 use the worst case, the 17 pounds of ammonia
21 turned into 69 pounds of particulate matter, and
22 were to go out and purchase 69 pounds of
23 particulate credits, we would way more than offset
24 the particulate impact.

25 So the answer to the question that

1 Hearing Officer Garret was asking was somewhere
2 between zero and 69 pounds, I think.

3 MR. WALTERS: Yeah, although I think
4 ammonium nitrate is 98 pounds, but yeah, zero to
5 the molecular weight of ammonium nitrate. It
6 would be somewhere in there.

7 MR. GARCIA: Okay.

8 MR. WALTERS: The problem is, like I
9 said, it's different, you know, throughout the
10 year. I mean it's going to be a winter max
11 phenomenon in general.

12 MR. GARCIA: But it will never be more
13 than that amount.

14 MR. WALTERS: No, it will never be more
15 than that amount. But that amount, if --

16 MR. GARCIA: But it will always be less
17 than that amount, right?

18 MR. WALTERS: Right.

19 MR. GARCIA: Because it never goes over
20 100 percent.

21 MR. WALTERS: Can't get more than 100
22 percent.

23 MR. GARCIA: Okay.

24 HEARING OFFICER SHEAN: Okay. Any
25 redirect?

1 MR. KRAMER: No.

2 HEARING OFFICER SHEAN: All right.

3 Thank you very much, you're excused.

4 Mr. Carroll, we have some local
5 governmental representatives. If it's all right
6 with you --

7 MR. CARROLL: Yes.

8 HEARING OFFICER SHEAN: -- we'd like to
9 invite them to come up and give their comments.
10 Supervisor Gary Wyatt.

11 SUPERVISOR WYATT: Good afternoon.

12 PRESIDING MEMBER KEESE: Welcome.

13 COMMISSIONER PERNELL: Good afternoon.

14 SUPERVISOR WYATT: Thank you for the
15 opportunity to stand before you and share some
16 thoughts. And thank you for coming down to the
17 lovely Imperial Valley at such a lovely time of
18 the year.

19 HEARING OFFICER SHEAN: Your skies are
20 clear.

21 SUPERVISOR WYATT: Yes, they are clear,
22 and we are all very concerned, of course, for the
23 terrible tragedies and losses that are occurring
24 throughout our state in the last few days, and
25 probably in the next few days to come. And we

1 have many prayers and thoughts for those.

2 We're kind of fortunate, I guess, in
3 some ways. I sit on RCRC, Regional Council Rural
4 Counties. When we talk about forest issues it's
5 something I have nothing to talk about, since we
6 have no forest at all. So it's something that --
7 we have many other situations.

8 But let me introduce myself. My name is
9 Gary Wyatt; I am the Supervisor for District Four,
10 which is the northern part of the County, and all
11 of the area that is under your concern is within
12 my District. So I have a great concern and a
13 great interest in the proceedings that are going
14 on here.

15 Our valley is historically -- has a
16 historical high rate of unemployment; in the area
17 of 20 to 24 percent. We have one of the lowest
18 per capita totals in the State of California.
19 Every year we're at or near the bottom of the
20 State of California in that particular arena.

21 This geothermal project is a very
22 positive opportunity for our County. It's one of
23 the resources that we have readily available that
24 is in great need throughout the state, and really
25 throughout the southwest part of the United

1 States.

2 The project enjoys immense public
3 support. As a matter of fact, I doubt that you
4 will be able to find anyone anywhere in our valley
5 that has anything of any significant problem with
6 this particular project. This renewable,
7 environmentally friendly green source of power for
8 a very needy California market, I think, is a
9 classic poster child for the win/win situation.

10 The benefits of this project reach to
11 every side of the issue. For our valley it means
12 somewhere in the area of 550 to 600 well-paid
13 construction jobs. The local economy will win as
14 millions of dollars are pumped into our area
15 businesses, motels, restaurants and supply
16 centers.

17 Local government, schools and students
18 from the north end will be huge winners, as well,
19 as they will benefit from the expected \$3 million
20 plus in new property taxes that will be generated
21 by this plant.

22 And the environment will be a
23 beneficiary as well, from the clean source of
24 renewable green power that will provide the needs
25 for many people throughout our area, as well as

1 southern California and the rest of California, as
2 well.

3 Air quality which I hear some of the
4 discussion about here. We know something about
5 air quality concerns in our area here. Since we
6 sit in a basin where we have to suffer from the
7 consequences of the poor air quality that emanates
8 from a foreign country; and yet we are made to pay
9 the price for that particular problem.

10 So we know a great deal about air
11 quality problems, PM10 and so forth. But this
12 particular project is not going to cause a problem
13 with that particular area. So air quality will be
14 maintained and not be a source of problems for us.

15 Located next to an incredible wildlife
16 refuge and wildlife resource, geothermal has for
17 many years been a friend to the birds and the fish
18 and the rest of our environment in that particular
19 area. As you know, Sonny Bono National Refuge
20 sits right next door to this particular area. And
21 so they've been friends and neighbors for many
22 many years. They will continue to do so. So for
23 the environment this project is a huge win/win.

24 It's rare that projects like this come
25 along. And we see many many projects in our

1 County as all counties do. And rarely do we ever
2 get a project that comes along that has this many
3 wins without any of the negative mitigation needs
4 that go along with that.

5 So when you look at the huge economic
6 boost that this kind of project is to our local
7 economy, and one of the economies that is the
8 greatest needs in the entire state. When you look
9 at the substantial and long-lasting employment
10 opportunities it's going to present to families
11 here that are in desperate need of such.

12 And then when you look at what it does
13 to the environment, as it keeps it clean, it keeps
14 it green, and it keeps it environmentally
15 friendly.

16 Then for all of us that will benefit
17 from its construction and for all of those that
18 will enjoy its production this is a project that
19 deserves your support. And I hope that you'll
20 give that to it.

21 Thank you very much for your time.

22 HEARING OFFICER SHEAN: Thank you. We
23 have another representative from an elected
24 official's office, and I think it's Aida Gates, is
25 that right? You wish to speak?

1 MS. GATES: Good afternoon. My name is
2 Aida Gates and I --

3 COMMISSIONER PERNELL: Welcome.

4 MS. GATES: My name is Aida Gates. I am
5 Area Representative for Senator Ducheny. And as
6 Mr. Wyatt previously mentioned I echo his
7 sentiments, thank you very much for coming down
8 here. I'm glad the weather wasn't as bad as it
9 has been in the past weeks.

10 I have a letter here from Senator
11 Ducheny that she actually wanted me to read on her
12 behalf:

13 Dear Board Members: I would like to offer my
14 support for the proposed construction of a
15 185 megawatt geothermal power plant near the
16 Salton Sea. This project known as the Salton
17 Sea Unit 6, SSU6, geothermal power project
18 will provide an excellent opportunity for the
19 Imperial Valley to utilize its geothermal
20 resources to expand the region's energy
21 capacity.

22 As you are aware, geothermal power plants
23 provide a renewable and reliable source of
24 energy. If approved the SSU6 geothermal
25 power plant will be a vital source of energy,

1 particularly for the Imperial Valley which is
2 highly dependent on out-of-state energy
3 sources.

4 CalEnergy, the applicant for this project,
5 has already taken steps to negotiate with the
6 Imperial Irrigation District on the sale of
7 electricity from this power plant. This
8 energy transaction will help diversify the
9 District's energy portfolio needed to insure
10 the Imperial Valley is protected from
11 potential energy deficits.

12 While SSU6 will be an important energy
13 source, it will also stimulate needed
14 economic activity in the Imperial Valley by
15 creating jobs both directly and indirectly
16 from the energy plant. By providing both an
17 indigenous energy supply and an economic
18 opportunity, the SSU6 will be a major benefit
19 to the Imperial Valley and its residents.

20 For these reasons I urge your support for
21 this project. And thank you very much for
22 your time and consideration of this important
23 matter. And if I can be of any assistance,
24 feel free to contact me."

25 I have some -- this letter will be going

1 out possibly tomorrow or the next day. I'm sorry
2 I didn't make copies for you, but as you notice,
3 or may notice, she hasn't had an opportunity to
4 sign it yet.

5 Thank you very much for your time.

6 HEARING OFFICER SHEAN: That would be
7 wonderful.

8 COMMISSIONER PERNELL: Thank you .

9 HEARING OFFICER SHEAN: We look forward
10 to getting it, thank you.

11 All right. We have another
12 representative from an elected official.

13 MS. BARRETT: Good afternoon; thank you
14 for coming here, Commissioners, and listening to
15 what everyone has to say.

16 My name's Glenna Barrett. On behalf of
17 Assemblywoman Bonnie Garcia I'd like to express
18 support for CalEnergy's geothermal project, Salton
19 Sea Unit 6.

20 Bonnie has supported this project in
21 Sacramento in the past and continues to support it
22 because increasing renewable and clean energy
23 resources are very beneficial to the environment.

24 This project provides jobs, revenues and
25 renewable energy benefits to one of the most needy

1 regions of California.

2 Thank you very much for your time. Have
3 a great day.

4 HEARING OFFICER SHEAN: Thank you very
5 much.

6 COMMISSIONER PERNELL: Thank you.

7 HEARING OFFICER SHEAN: We can take a
8 brief opportunity here to have some public
9 comments. Yes, sir, if you'd like to come up.
10 And then we'll get back to our air quality
11 matters.

12 MR. GONZALES: My name's Oscar Gonzales
13 and I'm a retired academic teacher and bureaucrat.
14 I was the first Affirmative Action Officer of the
15 Imperial County many years ago, from 1975 to '80.

16 Independent of the comments before me
17 and the merits of the program my concern isn't
18 hypothetical but empirical and factual. I think
19 when you consider the methodology by CalEnergy's
20 program, empirical data, scientific framework,
21 merits of improving the quality of life, people
22 making money, I wish to submit to your board the
23 concern based on the adverse sociological and
24 political impact on low-income people in Imperial
25 County.

1 For example, I think the project is
2 estimated that it's going to take two years. And
3 upon completion will hire, oh, it's going to need
4 people in the construction phase, and when it's in
5 full completion will hire about 70 people to
6 operate and program.

7 I feel compelled to challenge to raise
8 this issue because when you look at the record of
9 CalEnergy in Imperial County, it hasn't manifested
10 its support for training local people in the past.
11 Case in point, the majority of the best paying
12 jobs are held by white people.

13 We represent the vast majority of the
14 people in Imperial County. We have highly trained
15 qualified people in Imperial County. The majority
16 of the people, I don't know how many people you
17 could say that CalEnergy has hired, blacks or
18 other minorities. But I think we need to work
19 together; we need to support this program.

20 But by the same token, I think what
21 about us? We have a lot of people that are highly
22 qualified in Imperial County. I'm not looking for
23 a job, I have a masters degree in public
24 administration. And I have a BA from UCSB in
25 1970.

1 But when are we going to support the
2 local home team? Yeah, it's going to hire people,
3 but I would challenge the board of supervisors,
4 IID, customs, immigration, CalEnergy, and even in
5 the state, how many blacks have you hired from
6 local? How many minorities right now? The best
7 paying jobs are held by white folks. That's not
8 fair.

9 I don't mind if capitalism prevails.
10 I'm not against this project. But I think this
11 concern needs to be raised time and time again so
12 we won't forget that we're all Americans and we
13 need to represent and hire people.

14 Calexico Community Action Council, I was
15 a board member many years. When you look at the
16 outskirts of Calexico, industrial park, thanks to
17 Governor Brown, Senator Cranston, who may rest in
18 peace, Jack Ortega, among others that have
19 perished or are no longer with us, supported those
20 programs.

21 CCAC has an unblemished record of hiring
22 and training people. You've got people that are
23 local here. There's one gentleman, Ruben
24 Gonzales, they're highly qualified, but yet we
25 don't have those training programs.

1 So I just wanted to make this concern to
2 your board, and especially CalEnergy. They have
3 to sit down and work with us. We can provide
4 assistance, and we have highly qualified people.

5 Thank you for coming down, and I
6 appreciate that you don't have to suffer the
7 weather that we do. But I love it; I wouldn't
8 want to live anywhere else but Imperial County.

9 Thank you very much and God bless you.

10 HEARING OFFICER SHEAN: Thank you, Mr.
11 Gonzales.

12 COMMISSIONER PERNELL: Thank you.

13 PRESIDING MEMBER KEESE: Thank you.

14 HEARING OFFICER SHEAN: Okay. Why don't
15 we do this. We had a brief comment period, let's
16 go to the applicant and we'll finish their air
17 quality matter. And then just before we take a
18 break we'll go back to public comments.

19 Then we'll have a brief break and then
20 continue on with any rebuttal information as well
21 as our biology section. Then we'll be getting
22 pretty close to getting this done.

23 MR. CARROLL: Thank you. Applicant
24 calls Mr. Paul Neil to testify in the area of air
25 quality, and I'd ask the witness be sworn, please.

1 Whereupon,

2 PAUL NEIL

3 was called as a witness herein, and after first
4 having been duly sworn, was examined and testified
5 as follows:

6 MR. CARROLL: Thank you.

7 DIRECT EXAMINATION

8 BY MR. CARROLL:

9 Q Would you please state your full name
10 for the record.

11 A Paul Neil.

12 Q And are you the same Paul Neil that
13 submitted prepared testimony in this proceeding on
14 October 17, 2003?

15 A Yes.

16 Q Am I correct that there are a number of
17 exhibits identified in your prepared testimony
18 that you are sponsoring today?

19 A Yes. I'm also sponsoring appendix G of
20 the AFC docket number 26373; and applicant's
21 response to set number five of CURE's data request
22 as they pertain to air quality docket number
23 28569.

24 These documents have been docketed with
25 the CEC but were not listed in my prepared

1 testimony.

2 Q To the best of your knowledge are the
3 facts contained in the prepared testimony
4 including the referenced documents incorporated
5 therein still true and accurate?

6 A Yes.

7 Q And have your opinions or conclusions
8 changed in any way since the filing of your
9 prepared testimony?

10 A No.

11 Q Would you provide a brief description of
12 the analysis that you completed in your
13 conclusions?

14 A Yes, I would. The air quality analysis
15 consisted of one, a review of the existing air
16 quality of the area; an estimate of construction,
17 commissioning, operations and temporary activity
18 emissions; dispersion modeling; an assessment of
19 compliance with air quality standards; and then
20 identification and evaluation of potential
21 mitigation measures.

22 My analysis and conclusions were
23 consistent with CEC Staff's except for two notable
24 exceptions.

25 The first exception is staff's

1 conclusion that the commissioning H2S emissions
2 will result in a significant unmitigated impact.
3 I disagree for the following reasons.

4 Their conclusion is inconsistent with
5 past CEC practices and assessments. Two,
6 emissions are mitigated with offsets from the
7 Leathers Geothermal Power Plant and with the
8 District-required commissioning plan.

9 Also staff modeling shows that no
10 residential areas will be impacted. Obsidian
11 Butte, which is seldom visited, has modeled
12 exceedances of five hours. Rock Hill, which is
13 occasionally visited, has modeled exceedances of
14 one hour.

15 Finally the District has determined that
16 this project is consistent with all their rules
17 and regulations.

18 The second exception is staff's
19 conclusion that the operational ammonia emissions
20 will result in a significant impact. Staff has
21 concluded that the area is ammonia lean so that
22 any increase in ammonia will generate a secondary
23 particulate.

24 I disagree that the ammonia is ammonia
25 lean for the following reasons. The USEPA

1 considers most of the west ammonia rich. CARB
2 considers the rural counties of California to be
3 ammonia rich. The District considers the area
4 around the project to be ammonia rich.

5 Staff has considered every other CEC
6 project to be located in ammonia rich environment
7 when they've looked at that issue, even those
8 located in the South Coast urban areas, such as
9 Mountainview and El Segundo.

10 And based on CARB and District emission
11 inventories we have shown that the County is
12 ammonia rich.

13 Staff has also stated that even if the
14 area was ammonia rich any increase would result in
15 increases of particulate formation. I disagree
16 with that conclusion for the following reasons.

17 Again, it's inconsistent with past CEC
18 assessments. Staff has noted that ammonia
19 emissions on other projects would not necessarily
20 result in additional secondary PM10 formation.
21 They did that on El Segundo and they also did that
22 in the San Joaquin projects.

23 Also, discussions with personnel
24 involved with ammonium nitrate air quality studies
25 confirmed that changes in ammonia emissions and in

1 ammonia rich environment does not lead to changes
2 in particulate concentrations.

3 And based on the above I disagree for
4 the need of AQ-13 and request its deletion. Thank
5 you.

6 Q Does that complete your testimony here
7 today?

8 A Yes, it does.

9 MR. CARROLL: Thank you. Mr. Neil is
10 now tendered for cross-examination in the area of
11 air quality.

12 HEARING OFFICER SHEAN: Why don't we do
13 a little housekeeping measure. Is there objection
14 to the admission of his testimony and the
15 references that he cited?

16 MR. KRAMER: No.

17 HEARING OFFICER SHEAN: All right, it is
18 admitted, then.

19 All right, the witness is available for
20 cross?

21 MR. CARROLL: Yes.

22 HEARING OFFICER SHEAN: Mr. Kramer.

23 MR. KRAMER: Couple minutes.

24 //

25 //

CROSS-EXAMINATION

BY MR. KRAMER:

Q Mr. Neil, do you recall how many visitors Rock Hill has annually?

A No, I don't. Will mentioned maybe 10,000 a year.

Q Does that sound about right to you?

A I believe so.

Q And did you describe that as a moderate amount of traffic just a moment ago?

A Seldom visited is the way I describe it.

Q Okay. And then you were talking about the whole west and rural areas in California, describing them as being characterized as ammonia rich. Did you understand that to be on average, or at every moment of every day or what?

A I would consider that to be a general statement of the air quality. Normal air quality is ammonia rich.

Q But the amount of ammonia in the air relative to other parts of the air varies over time, correct?

A Correct.

Q And the temperature varies, the humidity?

1 A Well, with ammonia rich it's either
2 going to be always ammonia rich unless there's hot
3 spots of acid gasses. That's what causes the
4 ammonia lean situation. If there are sources of
5 NOx and SO2 then you're going to wind up having
6 ammonia lean environments.

7 For instance, the southeast, even
8 eastern portion of the United States is ammonia
9 lean because there's so many acid gasses being
10 emitted.

11 Q Thank you.

12 MR. KRAMER: No further questions.

13 COMMISSIONER PERNELL: Mr. Neil, your
14 testimony is that this area is ammonia rich?

15 MR. NEIL: That's correct.

16 COMMISSIONER PERNELL: And staff is
17 asserting that it's ammonia lean?

18 MR. NEIL: That's correct.

19 COMMISSIONER PERNELL: But maybe that's,
20 staff is saying something different. Maybe you
21 all agree that it's ammonia rich? Just for my
22 clarification can I ask your air quality witness
23 to explain.

24 MR. KRAMER: I will not object.

25 COMMISSIONER PERNELL: I'm sorry about

1 this; I must have missed this along the way.

2 You're not asserting that this is an ammonia lean
3 area?

4 MR. WALTERS: I believe my assertion is
5 the fact there isn't enough data to say either
6 way, but there's a likelihood there will be times
7 when it's lean and there will be times when it's
8 rich. It may be rich most of the time, but it may
9 be lean other times, particularly as I noted
10 earlier, in my earlier testimony when the ambient
11 air is being influenced predominately from
12 pollutants from the South Coast Air Basin, which
13 is not noted to be ammonia rich and is noted to be
14 an ammonia lean area.

15 COMMISSIONER PERNELL: So would there be
16 pockets of hot gas that Mr. Neil was talking about
17 that would create an ammonia lean environment?

18 MR. WALTERS: It would essentially be --

19 COMMISSIONER PERNELL: Let me -- can I
20 rephrase that? Is there a history of pockets of
21 hot gas in this area? To your knowledge.

22 MR. WALTERS: No, I think my testimony
23 bears on the fact there isn't enough information
24 to make a conclusion that it's always ammonia rich
25 or always ammonia lean. And that it could be

1 either at various times due to the influences of
2 the other polluted air basins in the area that are
3 upwind of this air basin.

4 So I'm not saying it's ammonia lean.
5 I'm not saying it's ammonia rich. But I am saying
6 that in either case we expect that there will be
7 some additional secondary particulate formation
8 due to additional ammonia from this project.

9 COMMISSIONER PERNELL: Okay.

10 HEARING OFFICER SHEAN: I'm sorry, I'm
11 going to ask you to come back and make sure you're
12 saying what I think you're saying, or understood
13 you to say.

14 You don't have sufficient information to
15 characterize as either rich or lean, but in either
16 case any added ammonia is likely to cause
17 particulate formation, is that the fundamental
18 testimony --

19 MR. WALTERS: Right, under appropriate
20 conditions. Particularly under winter conditions
21 when essentially you have to go back to those
22 charts which kind of show you the different
23 temperature and relative humidities where the
24 increase in the ammonia ratio will cause
25 additional formation.

1 HEARING OFFICER SHEAN: So you're
2 looking for more relative humidity to get to cause
3 the particulate formation, is that essentially the
4 condition that you think is going to create that?
5 Relative humidity with the temperature change?

6 MR. WALTERS: It's a combination of
7 temperature and relative humidity. There would be
8 probably very little effect at extremely -- well,
9 at conditions like today, which are what, in the
10 90s and relative humidity may be in the 10s or
11 less.

12 HEARING OFFICER SHEAN: Right.

13 MR. WALTERS: Probably very little
14 effect. But in winter when you may have a
15 condition of 60 degrees and 60 percent relative
16 humidity you would see an effect.

17 PRESIDING MEMBER KEESE: And that would
18 occur in winter at night, or --

19 MR. WALTERS: In winter during the day,
20 in the spring, in the fall. And basically you'd
21 have to take a look at the met data --

22 PRESIDING MEMBER KEESE: The higher
23 humidities probably at night, and lower
24 temperatures at night?

25 MR. WALTERS: In general, or first thing

1 in the morning.

2 PRESIDING MEMBER KEESE: I guess my
3 question would be is that when people are visiting
4 sites? I mean is there a correlation between that
5 time and when we'll have our visitors --

6 MR. WALTERS: I think we're --

7 PRESIDING MEMBER KEESE: -- making their
8 rare visits to these --

9 MR. WALTERS: I think we're crossing
10 impacts again. We're talking about the ammonia
11 secondary particulate, which is more of a region-
12 wide issue, not the H2S impact which is more
13 specific.

14 PRESIDING MEMBER KEESE: Okay, thank
15 you.

16 MR. WALTERS: Just for commissioning.

17 MR. TOMASHEFSKY: Let me ask you one
18 question on page 7 of your written testimony. You
19 make a comment, mean annual temperature from the
20 nearest station 72.4 degrees, and the average
21 relative humidity for the county is 25 percent.

22 What -- and I know we're talking about
23 averages, what frequency would you see the
24 relative humidity getting up in that 60 percent
25 range? I know it's somewhere within this

1 testimony where you talk about the average
2 rainfall is about three inches a year.

3 So I mean intuitively you wouldn't
4 expect the humidity to be that high period. Could
5 you comment on that?

6 MR. NEIL: Well, on average it's that 25
7 percent, but it fluctuates, it fluctuates
8 somewhat. But I don't know, haven't looked
9 recently at the variations there.

10 MR. TOMASHEFSKY: Okay, and is the
11 assumption here that this is going to operate
12 pretty much with 100 percent load factor?

13 MR. NEIL: That's correct.

14 HEARING OFFICER SHEAN: And that
15 concludes your air quality presentation?

16 MR. CARROLL: I have one redirect
17 question for Mr. Neil.

18 HEARING OFFICER SHEAN: All right.

19 REDIRECT EXAMINATION

20 BY MR. CARROLL:

21 Q Mr. Neil, Mr. Walters suggested that the
22 environment in the vicinity of the plant could be
23 influenced by transport of the acid gases into the
24 region such that even if normally, as a result of
25 native sources the environment would be ammonia

1 rich, that it could, at times, be ammonia lean as
2 a result of transport.

3 Do you agree that transport emissions
4 from South Coast or from Mexico are likely to
5 alter what you characterize as the normally
6 ammonia rich environment in the vicinity of the
7 plant?

8 A I do not agree with staff on that issue.
9 I did take a look at the total emissions of those
10 air districts, also at Mexicali, to determine if
11 it was a valid argument. And the data in my
12 written testimony shows that when you consider all
13 the emissions that it's still ammonia rich.

14 And I'd like to add that the inventories
15 for ammonia are under development. People are
16 focused in on making those as accurate as
17 possible. And everyone that I've talked to winds
18 up saying that they've really understated the
19 amount of ammonia emissions.

20 I would expect that all the districts
21 would wind up increasing their ammonia inventories
22 over time so that these numbers are probably
23 understated.

24 Q Thank you.

25 MR. CARROLL: That concludes our

1 examination of Mr. Neil, and we would move the
2 admission into the record of the exhibits
3 sponsored by him.

4 HEARING OFFICER SHEAN: All right.
5 Those were included in your initial description of
6 his testimony, right?

7 MR. CARROLL: Yes, they were. They were
8 identified in the prepared testimony filed on
9 October 17th, and there were two additional
10 exhibits, appendix G to the AFC and response to
11 set number five of CURE's data requests that were
12 identified by him today. And we would move
13 admission of those, as well.

14 HEARING OFFICER SHEAN: Okay. I thought
15 they were in, but if they weren't is there
16 objection?

17 MR. KRAMER: No objection.

18 HEARING OFFICER SHEAN: Okay, they're
19 in.

20 MR. KRAMER: We would probably need to
21 move in the staff exhibits that we passed out
22 today, the court case and the two studies.

23 HEARING OFFICER SHEAN: All right, we
24 have three --

25 MR. KRAMER: We'd just be asking the

1 Committee to take notice of the court decision.

2 HEARING OFFICER SHEAN: Yes, as far as
3 that's concerned, it's Sierra Club and the
4 Imperial County Air Pollution Control District
5 versus the United States Environmental Protection
6 Agency. The case currently is cited in the West
7 Law citation and we'll get something that's
8 better, as 2003 WL 22309239. It will appear
9 somewhere in the Fed.3d.

10 The other is the Northern Front Range
11 Air Quality Study Final Report. This appears to
12 be portions of section 8 --

13 MR. KRAMER: It is all of section 8.

14 HEARING OFFICER SHEAN: Is it all of
15 section 8?

16 MR. KRAMER: But the rest of it is huge.

17 HEARING OFFICER SHEAN: Okay, there was
18 no indication how far 8 went.

19 But is there objection from the
20 applicant to admission of that section? Or do you
21 want us to do the whole report? And we could get
22 it in electronic form from the staff if you feel
23 that's necessary.

24 MR. CARROLL: I don't believe that's
25 necessary.

1 HEARING OFFICER SHEAN: Okay. Then the
2 staff offering of section 8 of the Northern Front
3 Range Air Quality Study Final Report would be
4 admitted into evidence.

5 And lastly, is this effects of change in
6 sulfate ammonia and nitric acid on particulate
7 nitrate concentrations in the southeastern United
8 States.

9 Do you want that in the record, or do
10 you just want that a matter that was referred to
11 by your witness in the formation of his opinion,
12 professional opinion?

13 MR. KRAMER: It would be helpful to have
14 it in the record so --

15 HEARING OFFICER SHEAN: Okay.

16 MR. KRAMER: -- it can be considered
17 with his opinion.

18 HEARING OFFICER SHEAN: That's volume
19 53, March 2003 of the Journal of the Air and Waste
20 Management Association. Is there objection to
21 that?

22 MR. CARROLL: No.

23 HEARING OFFICER SHEAN: All right, it's
24 admitted.

25 Do you have any rebuttal testimony you

1 want to do at this time?

2 MR. KRAMER: One brief question for Mr.
3 Walters.

4 HEARING OFFICER SHEAN: Okay.

5 DIRECT EXAMINATION

6 BY MR. KRAMER:

7 Q Mr. Walters, a minute ago we were
8 reminded that the applicant had found that the
9 average humidity on an annual basis was 25 percent
10 in this area.

11 Did you come to verify that number?

12 A Actually using the data that was
13 provided by the applicant for the Imperial Airport
14 the number was actually higher on an annual
15 average. In the winter the number was, I believe,
16 somewhere between 55 and 60 percent for an average
17 winter relative humidity.

18 MR. KRAMER: Thank you.

19 HEARING OFFICER SHEAN: Mr. Carroll, do
20 you have a question of the witness?

21 MR. CARROLL: No, I do not.

22 HEARING OFFICER SHEAN: Okay. And do
23 you have a rebuttal?

24 MR. CARROLL: No.

25 HEARING OFFICER SHEAN: No. Let me

1 just, before we get off the topic of air quality,
2 I have some questions that are related to other
3 conditions that appear in that. Is your witness
4 the ones who can respond to any of those, do you
5 think?

6 MR. KRAMER: Mr. Walters should be able
7 to. I'll put him on the spot.

8 HEARING OFFICER SHEAN: All right.
9 Sure.

10 I would like an explanation on the
11 record, please, for moving to the 50 horsepower
12 diesel engine as the threshold. Typically the
13 conditions that have been in the construction
14 conditions have shown 100 brake horsepower or
15 more. But I understand that due to the
16 unavailability currently of ultra low sulfur fuels
17 that between the applicant and staff you've
18 essentially traded 50 horsepower for the
19 nonavailability of that ultra low sulfur diesel
20 fuel, until it may become available within a
21 certain distance, is that fundamentally correct?

22 MR. WALTERS: I'm not sure if it's
23 exactly a trade, because I believe in at least the
24 last couple cases that I've worked on, I've been
25 using 50 as a basis.

1 And the change essentially is related to
2 the change in the equipment sizes that we've been
3 seeing in the equipment schedules we've been
4 getting for the various projects. And we're
5 starting to see a lot more equipment between 50
6 and 100 horsepower.

7 So we wanted to capture those into the
8 tier one requirement, particularly now that we're
9 several years from the model year requirement for
10 tier one. By the time these things are in
11 construction we're talking about equipment that
12 was first around six, seven years ago.

13 So, essentially we're just broadening
14 the base to help increase that mitigation level.
15 Also it helps lower the -- it does help lower the
16 PM10 and in this case, to some degree we use as a
17 tradeoff. But I think in general we decided to
18 deal with the ultra low sulfur based on
19 availability issue moreso than the 50 --

20 HEARING OFFICER SHEAN: Okay, so the 50
21 now represents essentially the new staff policy
22 then?

23 MR. WALTERS: Right, --

24 HEARING OFFICER SHEAN: With respect to
25 engine size? And then I ask what are you finding

1 in terms of engines of the 50 to 100 horsepower
2 range are either ARB or EPA certified? Is it that
3 there are a whole lot of engines that are not,
4 that you either want them because they're not to
5 be equipped with soot filters, or that they're now
6 is a substantial inventory of 50 to 100 horsepower
7 tier one engines?

8 Are we trying to make up for something
9 that isn't happening out in the marketplace? That
10 is, engines of the 50 to 100 horsepower range that
11 are not tier one or ARB or EPA approved or
12 certified, I mean?

13 MR. WALTERS: No, I think what we're
14 trying to make up for is essentially the fact that
15 we haven't been dealing with what turned out to be
16 a bigger category of equipment than we had thought
17 in the past. That there are a lot more equipment
18 in this size range being used on these projects.

19 And it was our, I guess, original
20 estimate. And a lot of that had to do with the
21 estimates that were provided by various applicants
22 on equipment size that essentially what you would
23 see on a site would be above 100 horsepower. So
24 we essentially put our cutoff at 100 horsepower.

25 But what we're seeing is a lot of lifts,

1 a lot of forklifts, backhoes, even some excavators
2 are coming in under 100 horsepower that are being
3 used, you know, quite a bit on these sites. And
4 we essentially had kind of missed that category,
5 because that category, in and of itself, we had
6 not required soot filters on, either. Essentially
7 it was an unregulated kind of equipment that was a
8 lot bigger piece of the pie than we had originally
9 considered.

10 HEARING OFFICER SHEAN: Can you
11 characterize how burdensome then, as a category of
12 existing equipment, it is to either have these
13 certified or capture them in the regulatory sense
14 by the Commission upon the construction
15 contractors?

16 MR. WALTERS: Well, this equipment would
17 have had to have been around first starting in, I
18 believe, model year 1998, if not 1997. So, by the
19 time they start construction there will be six or
20 seven years model year available for these type of
21 equipment.

22 Based on median age work that I've seen
23 EPA do, that means at least 25 percent of the
24 equipment probably are of this age, and possibly
25 more.

1 So it's not like they're going to be
2 rare. There's going to be a large fraction of the
3 available construction population should be tier
4 one.

5 HEARING OFFICER SHEAN: Okay. In your
6 condition AQC3, I think it is, almost -- let me
7 put it this way, the graph above the verification,
8 in the middle of that paragraph three it says: the
9 activities shall not restart until one full hour
10 after the shutdown."

11 Can you explain to me the reason for
12 that limitation on the restart of such activities?

13 MR. WALTERS: Excuse me, can you point
14 out the exact location again?

15 HEARING OFFICER SHEAN: Okay, what I'm
16 looking at now is in condition AQC3, in the staff
17 final assessment addendum that appears on page 11.
18 And if you're on -- is that the best way for you
19 to get it, as part of the addendum? Okay.

20 It's the third complete paragraph from
21 the top. Begins with, "The AQCM shall direct a
22 temporary shutdown of the source of the emissions
23 if step B specified above fails to result in
24 adequate mitigation within one hour of the
25 original determination."

1 And then it's the following sentence:

2 The activities shall not restart until one full
3 hour after the shutdown." I'm asking you for an
4 explanation of why the concept of a full hour is
5 necessary.

6 MR. WALTERS: I believe that essentially
7 allows them enough time to provide the additional
8 mitigation that -- so that they can get the
9 activities done before they start up again.

10 HEARING OFFICER SHEAN: So if the
11 sentence were to read: The activities shall not
12 restart until the mitigation is applied" that
13 would accomplish your objective?

14 (Pause.)

15 MR. WALTERS: It might with a rewording
16 of some of the rest of that paragraph. I'll have
17 to take a longer look at it.

18 HEARING OFFICER SHEAN: Okay. I think
19 the Committee would like the staff to do something
20 like that, because the one hour doesn't serve the
21 purpose. The objective isn't to consume an hour.
22 The objective is to have the mitigation
23 implemented right.

24 MR. WALTERS: Correct.

25 HEARING OFFICER SHEAN: So let's do what

1 we intend to do. Because if it took five minutes
2 to implement the mitigation there's no reason to
3 have a bunch of guys and their equipment standing
4 around for 55 minutes. If it took an hour and
5 five minutes, then you need to wait until you
6 actually get it implemented. And I think that's
7 what we have in mind. Let's do what we want to
8 do, which is serve the intent of the condition,
9 rather than merely observe a time thing.

10 So, if you want to give us some language
11 on that that does that, we'll consider it, other
12 than doing the editing ourselves.

13 MR. WALTERS: Right.

14 MR. KRAMER: What would the timeframe
15 for that effort be?

16 HEARING OFFICER SHEAN: At your
17 convenience. Okay, that actually does it for me.
18 I have another one. We amended your -- in the
19 SMUD proceedings we didn't use your AQC3, again
20 simply because the objective there was to meet the
21 requirements of the fugitive dust abatement rather
22 than having somebody watching a windsock till they
23 got to 25 miles an hour. And we're likely to make
24 that change, as well.

25 Oh, yes, I have something more. We're

1 going to go to your final staff assessment, part
2 two, condition AQC4, since it relates to the one I
3 was just mentioning.

4 If you have that, the last sentence: No
5 construction activities are allowed to cause any
6 visible plume in excess of 200 feet beyond the
7 centerline of the construction of linear
8 facilities, or cause visible plumes to occur
9 within 100 feet upwind of any occupied structure."

10 Now, I have to admit, as I keep reading
11 through all this material I look for pieces of
12 humor. And I came up with a possible occupied
13 structure on a worksite. And I wondered what it
14 is that you have in mind in thinking of these
15 occupied structures.

16 Are we talking trailers, or something
17 like that? What is an occupied structure? And
18 please tell me it's not a plastic one-man
19 building.

20 MR. WALTERS: Essentially it's anything
21 that would be occupied that would be outside of
22 the control of the applicant. So, essentially it
23 would be a residence or a place of work that would
24 be along this linear.

25 HEARING OFFICER SHEAN: Okay, so is it

1 that the plume, itself, is not within 100 feet of
2 the occupied structure? Or that, because if I'm
3 understanding it correctly, along a linear
4 facility 200 feet from the centerline is the point
5 at which no activity is permitted, right?

6 I'm just trying to reconcile this so I
7 understand it, what it means. This is now an
8 occupied structure that is outside of the control
9 of the applicant, such as a residence?

10 MR. WALTERS: Right. Essentially what
11 this does is if the linear essentially is going
12 right through somebody's front yard or, you know,
13 closer than 200 feet, --

14 HEARING OFFICER SHEAN: Okay.

15 MR. WALTERS: -- we want to make sure
16 that we are not, you know, grossly impacting these
17 structures that are outside of the control of the
18 applicant.

19 So we want to make sure that they're
20 providing adequate dust control in those
21 situations.

22 HEARING OFFICER SHEAN: Right. I
23 understand that now.

24 MR. WALTERS: And in this particular
25 case I think there are limited situations of those

1 kind, considering the fact that the linears are
2 going to go by only a few occupied structures.

3 HEARING OFFICER SHEAN: Okay. Thank
4 you.

5 COMMISSIONER PERNELL: Can I do a quick
6 followup?

7 HEARING OFFICER SHEAN: Sure.

8 COMMISSIONER PERNELL: As I understand
9 it from the site visit there are agricultural
10 fields that will be close to the structure. Maybe
11 the applicant can help me on this. Are there
12 agricultural fields out there?

13 MR. CARROLL: Yes, there are.

14 COMMISSIONER PERNELL: So then the one-
15 person plastic facility that Mr. Shean was talking
16 about, would that apply?

17 MR. WALTERS: I don't think that we
18 would consider a Port-A-Potty a permanent
19 structure. We could always put the word permanent
20 in --

21 COMMISSIONER PERNELL: Did you say --

22 MR. KRAMER: You weren't supposed to say
23 the word.

24 COMMISSIONER PERNELL: -- is it
25 permanent? Is the word permanent in your --

1 MR. WALTERS: No, but if the condition
2 were, you know, would like to add that particular
3 word we could do that.

4 COMMISSIONER PERNELL: That would be
5 fine with me. I just want to cover, we don't want
6 to eliminate any ongoing activity in the area. Or
7 stop the project because of ongoing activity in
8 the area.

9 HEARING OFFICER SHEAN: All right.

10 MR. TOMASHEFSKY: Garret, I --

11 HEARING OFFICER SHEAN: Yeah.

12 MR. TOMASHEFSKY: -- have a question.
13 This question is for Mr. Neil. Back on page 12 of
14 your testimony, the second-to-last paragraph just
15 above section G.

16 You make a comment about the Imperial
17 County Air Pollution Control District and the
18 applicant taking a proactive stance offsetting
19 completely H2S commissioning emissions.

20 Can you elaborate on that, or is there
21 any document that you can refer the Committee to
22 on what actually has been done?

23 MR. NEIL: It's in the final staff
24 assessment. That the emissions of the
25 commissioning for both H2S and for particulate are

1 being offset.

2 I can get a copy and show where in the
3 final staff report it's listed if you'd like.

4 MR. TOMASHEFSKY: If you can that would
5 be great. All right, thank you.

6 MR. CARROLL: If I could just clarify, I
7 think the characterization of that activity as
8 being proactive was based on the fact that the
9 applicable regulations would not require that
10 either PM10 or H2S be offset. And the applicant
11 voluntarily agreed to provide those offsets as
12 mitigation for the project.

13 MR. TOMASHEFSKY: Thank you.

14 HEARING OFFICER SHEAN: All right, if
15 there's nothing further on air quality matters
16 we're going to move now to our biology matter.
17 And ask the staff to -- first of all, does anybody
18 need a break?

19 UNIDENTIFIED SPEAKER: (inaudible).

20 HEARING OFFICER SHEAN: Yes?

21 (Laughter.)

22 UNIDENTIFIED SPEAKER: Can the public
23 health witness be excused?

24 HEARING OFFICER SHEAN: Yes.

25 UNIDENTIFIED SPEAKER: Thank you.

1 MR. TYLER: Hi, this is Rick Tyler. I
2 came on the line, I've been listening for awhile.

3 HEARING OFFICER SHEAN: Thank you. Are
4 you going to stay on?

5 MR. TYLER: Yeah. Do you have questions
6 of me for hazmat or fire protection?

7 HEARING OFFICER SHEAN: Yes.

8 MR. TYLER: Okay, should I just wait on
9 the line then through the break?

10 HEARING OFFICER SHEAN: I think so.
11 We're not going to -- it's not going to be very
12 long.

13 MR. TYLER: Okay.

14 PRESIDING MEMBER KEESE: Let me --

15 MR. TYLER: I'll be here.

16 PRESIDING MEMBER KEESE: This is Bill
17 Keese. Let me first tell you what our situation
18 is. We were delayed in leaving Sacramento for a
19 couple hours because of the aircraft problems
20 involved in L.A., Ontario and San Diego.

21 We were delayed after we got to San
22 Diego with the closure of Interstate 8. We had to
23 backtrack and go down I believe it's 94 towards
24 the Mexican border and back into 8.

25 At this time it's not certain that we're

1 going to be able to fly out of San Diego today.
2 People were renting cars to drive to Sacramento
3 from San Diego as we were departing the San Diego
4 Airport.

5 So there's a number of people who are
6 going to try to find alternative sites to move
7 north tonight. So, I would suggest that we skip
8 the break and continue moving forward. We do want
9 to hear from everybody. I'll ask you to be, when
10 we get to those parts let's all up here and in the
11 audience please be as brief in making our points
12 as we can.

13 And then perhaps we will find some
14 alternative method of leaving, other than going
15 back through San Diego.

16 HEARING OFFICER SHEAN: Okay, with that,
17 why don't we have the Commission Staff start with
18 biology, please.

19 MR. KRAMER: We need to swear Natasha
20 Nelson. And while we're at it, Carol Roberts, as
21 well. She's not actually a staff witness, but
22 she'll be testifying.

23 You're on the phone, Carol?

24 MS. NELSON: She asked to take a break.

25 MR. KRAMER: Carol may have taken a

1 break.

2 MS. NELSON: She was sworn in --

3 MR. KRAMER: That's right, Carol has
4 already been sworn in.

5 (Parties speaking simultaneously.)

6 Whereupon,

7 NATASHA NELSON

8 was called as a witness herein, and after first
9 having been duly sworn, was examined and testified
10 as follows:

11 DIRECT EXAMINATION

12 BY MR. KRAMER:

13 Q Can you please state your name for the
14 record.

15 A Natasha Nelson.

16 Q And you're the CEC Staff member who
17 prepared the biology section, is that correct?

18 A Yes, I did.

19 Q Do you have any corrections to your
20 testimony?

21 A I noticed just in the addendum, which
22 was prepared, on page 20, the first two lines of
23 Bio14 are new additions. And the underline did
24 not show.

25 Q Okay.

1 A That is my only correction.

2 Q And in their testimony last week the
3 applicant proposed an amendment to -- the week
4 before, to condition Bio19, correct?

5 A Yes, I did see that.

6 Q Do you agree to make that correction?

7 A I would only agree if my correction was
8 inserted.

9 Q Okay, so --

10 A So I think you'd have to ask the
11 applicant's biologist to agree to that.

12 Q Okay.

13 MR. KRAMER: So that then it may be
14 helpful for us to have a five-minute sidebar at
15 some point then to discuss that. But we'll move
16 on through the testimony first.

17 HEARING OFFICER SHEAN: Maybe just for
18 the purpose of clarification, can you indicate is
19 your Bio19 now shown on pages 24 and 25 of the
20 staff addendum?

21 MS. NELSON: Yes, it is. And there are
22 no changes between our two versions of Bio19
23 besides the last line, a credentialed biologist --
24 last line of the first paragraph. And then what
25 you see in underline on page 23 of CE Obsidian's

1 written testimony, I believe October 17th.

2 So I'll probably accept all of the
3 applicant's Bio19 with one small revision to
4 replace the one you see in mine.

5 HEARING OFFICER SHEAN: In that case, if
6 you and they work this out, are we done with the
7 topic or --

8 MR. CARROLL: Yeah, I have to apologize.
9 I'm not sure that I'm following it at all. Maybe
10 Mr. Kramer's proposal for a five-minute sidebar
11 would be the most efficient.

12 HEARING OFFICER SHEAN: Yeah, let's give
13 you that, because I think we can do probably away
14 with the topic if you're in agreement.

15 MR. KRAMER: Well, we will still have
16 the -- at least we need to highlight and speak to
17 Carol Roberts about the biological opinion, which
18 we didn't get last week as we had last told you we
19 were expecting it. So we will have a little bit
20 of discussion.

21 HEARING OFFICER SHEAN: But that's a
22 status update, right?

23 MR. KRAMER: I need to ask her a couple
24 questions because we want to make sure, at least
25 staff would like to see that our conditions are

1 consistent with her opinion. And frankly, we
2 haven't had time to talk to her since the last
3 conversation I understand she had with the
4 applicant.

5 And I need to ask her a couple
6 questions. It won't take a long time.

7 HEARING OFFICER SHEAN: Well, we're
8 going to stop talking. You guys do the language.
9 We will be back here by that clock showing quarter
10 past the hour. And hope to get underway.

11 (Brief recess.)

12 HEARING OFFICER SHEAN: We have a
13 representative from the County who is, of course,
14 very busy with everything that's going on, who
15 would like to make some comments before we resume
16 our biology. So, welcome.

17 EXECUTIVE OFFICER BURNS: Thank you.
18 I'm Robertta Burns, the County Executive Officer.
19 And CalEnergy has been in business in Imperial
20 County for quite a bit of time. They are
21 currently the largest property tax payer in
22 Imperial County.

23 The geothermal industry is really a very
24 large part of our economy here, and represents a
25 fair amount of the value that we have in the

1 property tax base.

2 Now, of course, in addition to property
3 tax they also pay sales tax and create jobs. And
4 it's anticipated that this will create about I
5 believe it's 70 jobs. And the construction will
6 entail at least 500 construction workers in order
7 to construct this plant.

8 The other advantages to this plant is it
9 will help to stabilize the energy availability,
10 and make less reliance locally on bringing in
11 energy from other sources, particularly out of
12 state.

13 So we would ask that one of the things
14 you look at is the ability of this plant to
15 support the local economy, to support the local
16 communities and to support the energy that's
17 needed in this area to continue to grow.

18 So, you know, I don't know if there's
19 any questions I can answer in relation to that,
20 but I would be glad to do that.

21 HEARING OFFICER SHEAN: I don't think
22 so, but thank you for taking your time out under
23 important and extraordinary circumstances to come
24 visit us today.

25 EXECUTIVE OFFICER BURNS: Well, thank

1 you; I appreciate your willingness to move me
2 ahead and listen to me.

3 HEARING OFFICER SHEAN: Thank you. Did
4 we have another speaker? Yes, sir, quickly,
5 please.

6 MR. LEMMON: Hi, I'm Tom Lemmon; I'm the
7 President of the Imperial Valley Building and
8 Construction Trades. And I just wanted to go on
9 record that we are fully supportive of this
10 project, obviously, with 1.4 million construction
11 jobs that will provide for local building
12 tradesmen.

13 So that was all I wanted to say.

14 HEARING OFFICER SHEAN: Mr. Lemmon, we
15 appreciate that very much, thank you for coming.

16 MR. LEMMON: Thank you.

17 COMMISSIONER PERNELL: Thank you.

18 PRESIDING MEMBER KEESE: Thank you for
19 the brevity.

20 HEARING OFFICER SHEAN: All right.

21 MR. NORTON: I'd like to make a quick
22 comment. My name is John Norton. I am an
23 unemployed electrician and I live up in the north
24 end in Nyland.

25 And as you know we have about 22, 25

1 percent unemployment here. And a lot of, how
2 should I say, ignorance, not stupidity. People we
3 really don't want from the state a fish. What we
4 want to do is we want to learn how to fish. Which
5 meaning we need jobs, we need skills.

6 CalEnergy wants to come in and build
7 this plant which will be bringing in some people,
8 which will give the locals a chance to work, to
9 pick up skills and to learn how to work
10 themselves, as opposed to the welfare and
11 unemployment and chronic drug dealing.

12 And I just want to go on record saying
13 that we need this plant. We need the jobs. We
14 need the skills. We need all this so that this
15 valley can come out of being the poorest valley in
16 the state, and maybe get on par with the others.

17 And that's really all I have to tell
18 you.

19 HEARING OFFICER SHEAN: Mr. Norton,
20 thank you.

21 PRESIDING MEMBER KEESE: Thank you.

22 MS. SCHONEMAN: Good afternoon. Ayron
23 Schoneman with COLAB, the Coalition of Labor,
24 Agriculture and Business for the Imperial County,
25 1430 Broadway, El Centro.

1 I'm just here to voice our enthusiastic
2 support for this project that CalEnergy has put
3 forth. We look forward to the additional jobs
4 locally, as well as the jobs that will be provided
5 through the construction of the plant.

6 COLAB, I represent 200 local businesses
7 in the areas of labor and agricultural interests,
8 as well as construction and some other business
9 types like that. And across the board we just see
10 the positive benefit of this plant going in
11 locally.

12 So we would appreciate your support, as
13 well. Thank you.

14 PRESIDING MEMBER KEESE: Thank you.

15 HEARING OFFICER SHEAN: Thank you.

16 People who have spoken, if you have business cards
17 or can otherwise identify yourself for our
18 reporter that would be a big help.

19 All right, I think we're ready to jump
20 back into the fray here with biology and Ms.
21 Nelson and the staff.

22 DIRECT EXAMINATION

23 BY MR. KRAMER:

24 Q Ms. Nelson can describe the agreement
25 we've come to on Biol9 for the record.

1 A Yes. Bio19, as presented in the October
2 17th testimony of CE Obsidian, would be accepted
3 by staff in complete replacement of my own, with
4 the following edits:

5 The second paragraph, sixth line, "If
6 habitat is made unsuitable, e.g. the evicted" you
7 would add the adverb "evicted owls leave the area
8 6.5 acres of habitat per pair would be provided."

9 On the top of page 24, first paragraph,
10 based on the number of burrowing owls identified
11 as potentially, again just modifying that
12 slightly, "potentially impacted the project owner
13 shall identify the amount of land it intends to
14 protect 15 days prior to construction."

15 So with those two words the applicant
16 was in agreement, would clarify the measure, and
17 would replace mine.

18 HEARING OFFICER SHEAN: Excellent.
19 Thank you.

20 MR. KRAMER: Now that, I believe, is all
21 the outstanding issues. Mr. Carroll, correct me
22 if I'm wrong?

23 MR. CARROLL: That is correct.

24 MR. KRAMER: And that brings us to the
25 question of the biological opinion, which staff

1 has not yet seen. The applicant may have seen a
2 draft via the federal parties, but I'd like Ms.
3 Nelson to describe one situation that she's aware
4 of where our current condition may be inconsistent
5 with what she has heard is likely to be in the
6 biological opinion.

7 MS. NELSON: Right. I was told from
8 Carol Roberts at the U.S. Fish and Wildlife
9 Service that she was accepting the conditions that
10 were published in the biological assessment which
11 CE Obsidian prepared July 11, 2002.

12 In there is a concern with construction
13 noise abatement. And in the biological assessment
14 it says construction activities that exceed 60 dba
15 standard would not occur during the breeding
16 season March through July.

17 In my supplemental testimony, I guess
18 I'm sorry it was called an addendum, on page 22,
19 is condition of certification that staff is
20 recommending, Biol6. In there we use different
21 dates; we use March 1st to May 31st, in opposition
22 to March through July. And we would also allow
23 the 60 dba threshold to be exceeded during the
24 daylight hours.

25 So while the applicant would be in

1 compliance with our condition of certification,
2 they may be in violation of the biological
3 opinion. And we'd like a chance to review the
4 biological opinion and make our condition of
5 certification consistent with that, because the
6 federal U.S. Fish and Wildlife Service has more
7 precedence in this matter.

8 HEARING OFFICER SHEAN: Okay, why don't
9 we do it this way. We will have a period where
10 we're working on the formulation of the PMPD. If
11 you get information from them that's conclusive as
12 to that, you can let us know that prior to its
13 release.

14 If you don't get it prior to its
15 release, and it comes out during the 30-day public
16 comment period on the PMPD, since it sounds as if
17 whatever the feds would be doing is somewhat more
18 restrictive than this, then the Committee could
19 incorporate that.

20 And because it would be somewhat more
21 restrictive instead of essentially loosening, we
22 generally don't consider that to be a revision of
23 the PMPD. And we could then incorporate that and
24 ultimately that would be available to the full
25 Commission for its consideration and possible

1 adoption at a full Commission hearing.

2 Does that sound acceptable to you?

3 MS. NELSON: Yes, I think that's sound.

4 HEARING OFFICER SHEAN: Okay. And to
5 the applicant?

6 MR. CARROLL: That's a very good
7 solution.

8 HEARING OFFICER SHEAN: All right.

9 MR. KRAMER: And we have one more
10 question issue we wanted to address with Carol
11 Roberts.

12 Whereupon,

13 CAROL ROBERTS

14 was called as a witness herein, and having been
15 previously duly sworn, was examined and testified
16 as follows:

17 DIRECT EXAMINATION

18 BY MR. KRAMER:

19 Q Carol, can you hear me?

20 A I can hear you.

21 Q Conditions Bio14 and Bio15, we interpret
22 to, at least in theory, allow the applicant to
23 begin construction prior to making a protocol
24 survey for some of the species. In essence they
25 could start constructing and when the protocol

1 survey window, the timeframe in which you can make
2 that, came upon us, they would cease their
3 construction efforts, conduct the survey and then
4 begin again.

5 Natasha has related to me several
6 conversations she's had with you. And we were not
7 sure if that was acceptable to you or not, because
8 it's a rather fundamental aspect of the project.
9 And your needs and requirements, we wanted to
10 clarify that with you on the record. Whether you
11 were comfortable with our current formulation of
12 Bio14 and Bio15.

13 A Unfortunately you were breaking up
14 through that. The concern with not providing, or
15 not having completed the protocol surveys prior to
16 the start of activities is it's been difficult to
17 evaluate the amount or extent of take that has
18 occurred as a result of the project.

19 Q Does that mean you'd rather not see it
20 happen, or --

21 A I'd rather not see it happen if at all
22 possible. The protocol survey window is March
23 15th to May 31st that we will have an opportunity
24 for surveys to, unless construction is planned
25 much earlier than I understand, we'll certainly be

1 at least some window of opportunity before
2 construction would begin.

3 MS. NELSON: Were you able to hear it
4 was March 15th, the window --

5 COMMISSIONER PERNELL: And what was the
6 last date? March 15th through?

7 BY MR. KRAMER:

8 Q Carol, what were the dates again of the
9 window?

10 A March 15th through May 31st.

11 COMMISSIONER PERNELL: So that's a 90-
12 day period possibly?

13 BY MR. KRAMER:

14 Q But they could, if they began on March
15 15th, they could complete the survey before the
16 end of the period and then theoretically begin
17 constructing, right?

18 A Provided, you know, the construction
19 activities that are occurring are with all of the
20 terms and conditions.

21 Q Let me ask you, is the biological
22 opinion going to address this question?

23 A Not specifically. It can. It was not
24 something that I had planned to incorporate
25 specifically. But it can if that would be of

1 assistance.

2 MR. KRAMER: Well, I mean just as easily
3 for us to get it right in our conditions, but we
4 just -- what we don't want to create is a
5 situation where we pretend that the applicant can
6 go forward and you get very upset and perhaps
7 legalistic and enforce some kind of sanction upon
8 them. We're not trying to set them up.

9 So, we need to know what the Service
10 feels would be the appropriate provisions in 14
11 and 15.

12 MS. NELSON: And it could be just for
13 certain locations or certain activities, that's
14 the most important part.

15 MR. CARROLL: If I could suggest, this
16 sounds like a secondary where we need
17 clarification at the Fish and Wildlife Service
18 level on something that they may be thinking about
19 being more stringent regarding than the staff. It
20 seems to fall into the same category as the issue
21 we just discussed.

22 HEARING OFFICER SHEAN: It seems like it
23 does. Now, let me just indicate if --

24 (Telephone dial tone.)

25 HEARING OFFICER SHEAN: Ms. Roberts, can

1 you hear us at all? Probably not.

2 COMMISSIONER PERNELL: I think it's
3 gone. Can somebody hang it up?

4 (Pause.)

5 MR. KRAMER: Do you want to go off the
6 record for this?

7 HEARING OFFICER SHEAN: Sure.

8 (Off the record.)

9 HEARING OFFICER SHEAN: And just as you
10 got cut off I think what was happening was Mr.
11 Carroll was indicating that he thought, and I
12 think the Committee concurs, is that this matter
13 is somewhat like what we just discussed earlier.

14 If the feds have more restrictive
15 requirements than the staff has provided with
16 respect to the commencement of construction that
17 that can be developed either prior to the issuance
18 of the Presiding Member's Proposed Decision or
19 during the public comment period, and
20 incorporated.

21 Let me just indicate, since you said the
22 window for the surveys we understood began on
23 March 15th and ended on May 31st, is that correct?

24 MS. ROBERTS: That is correct.

25 HEARING OFFICER SHEAN: Okay. It is

1 probably possible, just so that everyone has this
2 in mind as you discuss and deliberate it, that the
3 Commission's decision on this could come well
4 before March 15th. So that the applicant, unless
5 there were some other federal permit that delayed
6 construction, that was pending issuance that would
7 be a requirement for construction, at least as far
8 as the state side is concerned, assuming and based
9 upon the state of the record as we've seen it,
10 that there are no project stoppers, the Commission
11 certification would be occurring well prior to
12 March 15th, which is the beginning, if I
13 understand correctly, of the window of opportunity
14 for these surveys.

15 So that's just a fact that I think you
16 all ought to take into account as you discuss this
17 matter further.

18 Now I'm through.

19 MR. KRAMER: We're certainly willing, at
20 the staff level, to wait to receive the biological
21 opinion and then report to the Committee any
22 changes we feel are necessary to conform the two.

23 And in the meantime we can be discussing
24 them further with Ms. Roberts and the applicant
25 what Bio14 and 15 mean, what they should mean.

1 HEARING OFFICER SHEAN: Sure, and I'm
2 quite certain the applicant is in consultation
3 with the Fish and Wildlife Service in terms of the
4 materials that relate to the biological opinion so
5 that their views are being expressed. And any
6 concerns that they have about the commencement of
7 construction are also being expressed to the Fish
8 and Wildlife Service.

9 So I think we've got everybody on topic
10 and we'll just wait and see what happens.

11 Does that seem satisfactory to you, Ms.
12 Roberts?

13 MS. ROBERTS: You know, I'm sorry, I
14 didn't hear most of that. All I can hear is paper
15 crinkling.

16 HEARING OFFICER SHEAN: Well, why don't
17 we do this. When we conclude this meeting, if we
18 can just ask Ms. Nelson or another representative
19 of the staff to communicate with you by telephone
20 what we've basically indicated.

21 And let me just say -- can you hear me
22 now?

23 MS. ROBERTS: A little better.

24 HEARING OFFICER SHEAN: Okay, I can go
25 up a couple of decibels if you need that. The

1 Commission could certify this project
2 substantially earlier than March. So it seems to
3 us that you and the applicant and the staff ought
4 to be talking about what provisions in your
5 biological opinion should be incorporated in the
6 Commission's decision to insure that your concerns
7 are met.

8 And we'll let you and the applicant and
9 the staff just deal with this and inform the
10 Commission prior to -- let me say, during the
11 public comment period on the proposed decision, of
12 what solutions you arrive at.

13 Is that satisfactory to you?

14 MS. ROBERTS: That sounds fine.

15 HEARING OFFICER SHEAN: All right.

16 Anything --

17 MR. KRAMER: That's all we have.

18 HEARING OFFICER SHEAN: Okay. So that's
19 a wrap on biology then and our federal biological
20 opinion status. All right, thank you. And thank
21 you, Ms. Nelson, we know you had a long trip down
22 and a long windy ride. I don't know that you got
23 your money's worth up there at the podium.

24 MR. CARROLL: Just one procedural issue.

25 Would you like us to move the admission of the

1 exhibits, or did they go in when I wasn't --

2 HEARING OFFICER SHEAN: I would have
3 thought that in the initial presentation that all
4 the biology, and in fact the air quality matter,
5 would have essentially been captured in that.

6 If you feel that for some reason what
7 you can offer maybe did not include that --

8 MR. CARROLL: No. What we offered in
9 the prepared testimony captured all of the
10 exhibits.

11 HEARING OFFICER SHEAN: All right.

12 MR. KRAMER: As did we.

13 HEARING OFFICER SHEAN: Yes. My belief
14 now is the entirety of the record is in, as well
15 as the FDOC and the letter from the District, the
16 October, so that there really is nothing out there
17 that we have not captured in the evidentiary
18 record?

19 Okay, all the lawyers seem to be nodding
20 yes. And we'll just take that as a sign that we
21 think we've got it.

22 MR. CARROLL: Agreed from the
23 applicant's perspective.

24 HEARING OFFICER SHEAN: Okay. All
25 right.

1 MR. KRAMER: May I ask a housekeeping
2 matter?

3 HEARING OFFICER SHEAN: Yes.

4 MR. KRAMER: Could Mr. Walters be
5 excused, or would you prefer that he remain for
6 the public comment?

7 HEARING OFFICER SHEAN: It's probably
8 not necessary that he really -- I don't think so.

9 MR. KRAMER: Okay, thank you.

10 HEARING OFFICER SHEAN: Thank you very
11 much. And, Ms. Nelson, if you had a ride other
12 than with us you could leave, too, but we're all
13 stuck here in El Centro until we figure out how
14 we're going to get out of here.

15 All right, the next item that we had is
16 the Committee question with regard to fire safety,
17 hazardous materials and environmental justice.

18 Let me indicate for the record that at
19 the prehearing conference that we held a little
20 while back Mr. Garcia, who is the Advisor to
21 Commissioner Pernell, had some matters that he
22 wanted to raise and discuss. And we have reduced
23 those to writing which was sent out on October
24 17th. And we have received back from both the
25 applicant and the Commission Staff some written

1 responses with respect to those.

2 Just in the interests of saving time
3 here, not only do we have those responses -- oh, I
4 guess we may not have included your responses in
5 your testimonial offering, so is there objection
6 to admission of the responses of Commission Staff
7 to the Committee questions?

8 MR. CARROLL: No objection.

9 HEARING OFFICER SHEAN: Okay. It's in.
10 Now we have a complete record.

11 So, why don't we do this in the
12 interests of time, if Mr. Garcia has any further
13 questions or wants some further explanation of any
14 of the answers that were provided, we'll do it
15 that way.

16 MR. GARCIA: Okay, yeah. I want to
17 thank both the staff and the applicant for their
18 answers. I do have some further follow-on
19 questions, mostly for the applicant. And I've
20 reduced my original bunch of questions to
21 basically three smaller areas.

22 And the first one has to do with
23 hazardous materials compatibility. And neither
24 the staff nor the applicant was responsive in the
25 area that I was interested in.

1 Specifically I was concerned, I am
2 concerned about the compatibility of ammonia and
3 chlorine, diesel and sulfuric acid and I can't
4 recall if the inventory has sodium hydroxide or --
5 caustic solution and sulfuric acid.

6 And a lot of power plants have had
7 problems in this area where spilled materials ends
8 up getting commingled, and winds up having a
9 problem on their hands.

10 And I want to make sure that the
11 applicant has addressed this in their design and
12 if they could speak to that, please.

13 MR. RAEMY: We can speak to that.

14 HEARING OFFICER SHEAN: I think the
15 probably better thing for him to be is sworn. Why
16 don't you do them both.

17 MR. CARROLL: We will have both Mr.
18 Raemy and Mr. Salamy, who submitted the responses
19 to the questions, sworn.
20 Whereupon,

21 JERRY SALAMY and BERNARD RAEMY
22 was called as a witness herein, and after first
23 having been duly sworn, was examined and testified
24 as follows:

25 //

1 DIRECT TESTIMONY

2 MR. RAEMY: The way we addressed the
3 question in our response submitted last Friday was
4 by referring to a general arrangement of the power
5 plant where we identify storage locations for
6 various chemical components that are utilized
7 during the process.

8 In particular, hydrochloric acid tank,
9 which is located in an area, you know, that's
10 separate from any other storage of chemical
11 component, which is in the northwestern part of
12 the power plant.

13 In addition, we discuss also storage
14 area for materials that are used in conjunction
15 with the cooling tower, which are located in the
16 southeastern part of the power plant.

17 So those two storage locations are
18 significantly apart from each other. And each
19 storage location is also surrounded by a curb
20 which allows containment of any spill, as well as
21 a buffer in case of spill combined with a 100-year
22 storm.

23 MR. GARCIA: Okay. That still isn't
24 responsive to my question, Mr. Raemy. I want to
25 know if they spill caustic or sulfuric acid, or

1 both, are they going to come in contact because
2 the containment area is a common area.

3 MR. RAEMY: The answer is no. There is
4 hydrochloric acid that's stored in one location.
5 So what will spill from the tank will be
6 hydrochloric acid.

7 MR. GARCIA: And could it come in
8 contact with sulfuric -- I mean with a caustic?

9 MR. RAEMY: Not to my knowledge.

10 MR. GARCIA: Okay. What about the next
11 pair, diesel and sulfuric acid?

12 MR. RAEMY: Not to my knowledge, either.

13 MR. GARCIA: Okay. And ammonium
14 containing products and chlorine, or sodium
15 hypochlorite?

16 MR. RAEMY: No. Again, the chemicals
17 that are utilized for the cooling tower are not
18 going to mix with -- are also in a discrete
19 location, all by themselves.

20 MR. GARCIA: Okay, so you're telling me
21 that if we spill 100 gallons of liquid -- or aqua
22 ammonia and there's no way that they're going to
23 come in contact with sodium hypochlorite solution?

24 MR. SALAMY: This is Jerry Salamy with
25 CH2M HILL. And I think the issue we're trying to

1 drive at here is this is not like a standard
2 combined cycle project where you would have a
3 water treatment building where most of the
4 chemicals would be stored.

5 In this particular facility real estate
6 is relatively inexpensive. The project design
7 allows for a more spread out project site. And it
8 makes most sense, from an engineering standpoint,
9 to store the materials where they're going to be
10 used.

11 And in this case those materials that
12 are used for the brine handling system are stored
13 together. Those materials that are incompatible
14 in that process would be physically separated from
15 one another such that if there were a spill, an
16 acid spill would not go into the containment
17 structure that contains the base because of the
18 reactions involved.

19 So I think that's what we're trying to
20 say in terms of --

21 MR. GARCIA: That's what I wanted to get
22 at.

23 MR. SALAMY: Okay.

24 MR. GARCIA: Okay.

25 MR. SALAMY: That is what we tried to

1 say in probably more words than you really wanted.

2 MR. GARCIA: Okay. I have two more
3 areas but I think we can run through quickly. One
4 is the hydrochloric acid. As I recall in the AFC,
5 table 15 or something like that, you indicated
6 that the facility would hold something like it's
7 either 15,000 or 30,000 gallons of 32 percent
8 hydrochloric acid, is that correct?

9 MR. SALAMY: That is correct.

10 MR. GARCIA: Okay, and as I recall, the
11 Cal-ARB program threshold concentration for
12 hydrochloric acid is 34 or 35 percent, something
13 like that?

14 MR. SALAMY: It's actually 37.

15 MR. GARCIA: 37 percent, okay. So in
16 your logic you did not prepare an RMPP plan
17 pursuant because it does not exceed the
18 concentration, is that correct?

19 MR. SALAMY: The concentration that
20 we're proposed to use would not require an RMPP,
21 yes, that is correct.

22 MR. GARCIA: However, if we look at the
23 30,000 gallons and we apply the concentration
24 factor to that, we're looking at roughly 10,000
25 gallons of -- hydrochloric acid, is that right?

1 MR. SALAMY: That's correct, yes.

2 MR. GARCIA: Okay. What is the reason
3 that from a risk management point of view that
4 these plans are often -- not often, these plans
5 are prepared?

6 MR. SALAMY: The plans are typically
7 prepared because there's a potential of an off-
8 site impact as a result of an accidental release.
9 Typically when the EPA and the ARB and other
10 agencies promulgate regulations they look at the
11 toxicity of a material, and the potential for it
12 to get off site, and what the impacts would be.

13 In the case of acids they typically look
14 at acids from the standpoint of what's currently
15 used in the industry, the concentration and its
16 ability to migrate off site.

17 I think you pointed out a 32 percent
18 solution is mainly water with a little bit of
19 hydrochloric acid in it. The potential for it to
20 migrate offsite is probably more associated with
21 it literally flowing offsite.

22 I believe the facility is going to be
23 designed with adequate stormwater management and
24 also secondary containment on chemical storage
25 areas that would preclude it migrating offsite

1 that way.

2 The other potential area would be if it
3 were to volatilize, if it were some type of
4 gaseous species, like anhydrous ammonia that you
5 have a liquid spill, it volatilized to the air; it
6 then migrates offsite.

7 That 's not the case with 32 percent
8 hydrochloric acid.

9 MR. GARCIA: And can you tell us for the
10 record what the containment material is? Is it a
11 steel tank, a plastic tank, foam tank, whatever?

12 MR. SALAMY: I believe it was a plastic
13 tank that was specified.

14 MR. GARCIA: Okay.

15 MR. SALAMY: Now that's the tank. There
16 is also a secondary containment that would like be
17 some type of coated concrete.

18 MR. GARCIA: Okay, all right. Thank you
19 very much on that.

20 Now, my last item has to do with the
21 elemental sulfur that's produced in I believe the
22 abatement system. We're looking at something like
23 2.5 tons of materials that are produced on a daily
24 basis. And as I recall, I think it was in the
25 AFC, the applicant indicated that they would be

1 looking at the possibility of recycling the
2 material.

3 My specific question had to do with
4 actually two areas. One, how would you go about
5 recycling it? And the other part has to do with
6 the economics of recycling. Why don't we start
7 with the economics first. Basically there is a
8 cost to disposing of this material, and that's one
9 number that I'd like to get on the record.

10 The second is that given that there is a
11 feasible method of recycling this elemental
12 sulfur, what is the cost, or perhaps even a
13 revenue stream to the project, of doing so?

14 MR. RAEMY: I think for the specific
15 answer regarding the cost of disposal, if I could
16 I'd like to be able to take maybe a minute and get
17 that information for you. I think we can get that
18 today and come back to you on that immediately.

19 HEARING OFFICER SHEAN: Pardon me?

20 (Pause.)

21 MR. GARCIA: Mr. Raemy, we'll come back
22 to your answer. That will be the end of my
23 questions.

24 HEARING OFFICER SHEAN: Okay, so what
25 we'll do is just divert here, do a little bit of

1 other business, and then come back to that.

2 Just as a housekeeping matter, let me
3 also indicate that the Committee had at its desk
4 here when we came in a letter from Mr. Bill
5 Powers, the Chair of the Border Power Plant
6 Working Group. And attached to it is a document
7 entitled, Evidentiary Hearing Comment Letter, in
8 which Mr. Powers comments about the recharge of
9 the geothermal field and issues related to the use
10 of cooling water from the geothermal field, and
11 the issues related therefore to recharge.

12 In it he makes a reference to a portion
13 of the staff's FSA, and I'm trying to find that.
14 Has the staff read the comment letter and
15 understand it?

16 MR. WORL: We just --

17 MR. KRAMER: -- somewhat. What I read
18 in this is he doesn't think we've shown that the
19 resource is going to be unaffected by this
20 withdraw, and it may be depleted gradually over
21 time. And that we haven't shown for sure that it
22 won't.

23 I'd point out that the Committee early
24 on in this case made a finding that there's a
25 resource available in commercial quantities for

1 the life, the 30-year life of the project. That's
2 what's required under our rules.

3 I don't know if he's trying to make this
4 into a CEQA impact. Obviously, I mean the Border
5 Power Working Group is an intervenor. They
6 received the order. And if this was to be made a
7 full blow issue to be litigated, they were
8 supposed to have raised that in a prehearing
9 conference statement.

10 HEARING OFFICER SHEAN: No, and we
11 understand that. And I think by the fact that
12 he's raising it as a comment letter -- I have
13 found his reference which is on your AFC page 4,
14 4.9-6, in the last paragraph. It says that annual
15 recharge is about 400,000 acrefeet from various
16 sources. And it cites an ICPBD 1993.

17 Is that specified at the end of your
18 chapter here? If it's not, maybe what I'm
19 suggesting is that you give the record the benefit
20 of that reference and serve it upon all parties.
21 And we'll put it in the record so that we have
22 notion of what that is.

23 Okay, is that the Imperial County
24 Planning and Building Department?

25 MR. WORL: Yes.

1 HEARING OFFICER SHEAN: Okay, the
2 Imperial County General Plan. Okay. And that
3 reference is on 4.9-37.

4 Why don't you docket that so we can take
5 a look at it and see if we can evaluate that more
6 fully, Mr. Powers' comment. You know, as we do,
7 we take all the materials that we get seriously,
8 so I'd like to take a look at that, if you have
9 the document, itself.

10 MR. WORL: We have it.

11 HEARING OFFICER SHEAN: Okay.

12 MR. KRAMER: It might be rather large.
13 If we could docket the relevant portions that
14 might be --

15 HEARING OFFICER SHEAN: Yes.

16 MR. KRAMER: -- a friend to the forest.

17 HEARING OFFICER SHEAN: That would be
18 great.

19 COMMISSIONER PERNELL: Okay.

20 HEARING OFFICER SHEAN: Okay, now we're
21 back to -- do we have the information --

22 MR. CARROLL: Yes, we do have the
23 response for Mr. Garcia.

24 HEARING OFFICER SHEAN: Okay.

25 MR. RAEMY: The numbers we'd like to

1 provide for the record will be \$7 per ton for
2 disposal and \$13.50 per ton for transport. Sorry,
3 \$77 per ton for disposal and \$13.50 per ton for
4 transport.

5 MR. GARCIA: Okay, so that -- let me
6 repeat that and make sure I understand. The
7 tipping fee for the disposal is 77 bucks? And on
8 top of that there's a transportation fee of
9 \$13.50, for a total of \$90.50 per ton, is that
10 right?

11 MR. RAEMY: That's correct.

12 MR. GARCIA: And that's the disposal
13 cost.

14 MR. RAEMY: So, if you look at 2.5 ton
15 per day it will be at \$90.50 per ton; 2.5 tons per
16 day you would be looking at \$226 per day, which is
17 \$82,580 per year.

18 MR. GARCIA: Okay. And the recycling
19 costs?

20 MR. RAEMY: Well, it depends. In case
21 if we can recycle this byproduct it's likely that
22 we would have local farmers picking up the product
23 from our facility --

24 MR. GARCIA: But, the heart of the
25 question that the Committee asked was the two

1 costs. And one without the other doesn't help us
2 very much.

3 MR. RAEMY: To get at least an envelope
4 around this question, you can assume that the cost
5 of disposal that we would have with this 2.5 ton
6 per day, which would amount to about \$82,000 per
7 year, would be avoided if the byproduct would be
8 suitable for pickup by local farmers, and they
9 would be able to just pick it up for us.

10 We would not have to transport it to an
11 appropriate landfill and would not have to pay the
12 disposal costs or the disposal fee that's
13 associated with its disposal.

14 MR. GARCIA: So then I'm going to ask
15 the obvious question, why are you proposing to
16 dispose it to a landfill and use up valuable
17 landfill space when the alternative is for land
18 application as a soil improvement at a lower cost.

19 MR. RAEMY: That's a very good question,
20 in the sense that, you know, it's not our intent
21 to dispose of it. What we are trying to propose
22 or to show is a worst case scenario where we would
23 have to dispose of it. But our preference would
24 be to be able to use it as a byproduct.

25 Our preference would be able to find the

1 solution with the appropriate parties to be able
2 to use this byproduct for something more
3 productive.

4 MR. GARCIA: Okay, so now that we've
5 established the two extremes, let me ask you,
6 let's say that on the one hand it costs you 90
7 bucks a ton, and on the other hand maybe you can
8 make 5 bucks a ton by giving it or selling it to
9 the farmers.

10 Is it, within this range, the
11 possibility that you could pay the farmers to take
12 it, say \$25 a ton, or some other number? So,
13 you're not precluding that?

14 MR. RAEMY: We're not precluding that.
15 Assuming that we can provide some value to a third
16 party with this product, we'd probably be looking
17 at the value that's added to the third party and
18 identify, you know, the parameters of the
19 transaction.

20 So at this stage I don't know what the
21 number would be, but I can say that under the
22 assumption that we would dispose of this byproduct
23 at no cost to the third party, we'd be avoiding
24 the \$90 per day that would otherwise occur.

25 MR. GARCIA: Okay, I'm fine. Thank you.

1 MR. RAEMY: Thank you.

2 HEARING OFFICER SHEAN: Okay, I just
3 have a question here for Mr. Carroll. I think
4 it's for you, or maybe for one of your people
5 here.

6 And this is staff's addendum, page 38.
7 It's the condition Com8. With respect to the
8 construction and the operation security plan, I
9 guess I'm focused on the construction security
10 plan since it needs to come first, item number 4.

11 Do you understand and/or are you
12 comfortable with the use of the word suspicious
13 activity? Is that sufficiently clear in your
14 mind, or is it vague in your mind as to what it is
15 that either is expected or the kind of thing that
16 you people would be responding to?

17 MR. CARROLL: I would confess that there
18 is a certain vagueness about the word suspicious,
19 but I think that we have a general understanding
20 of what it is that the staff is trying to convey.

21 HEARING OFFICER SHEAN: Okay. And with
22 respect to that, does the staff have either prior
23 construction security plans, or a model plan that
24 helps define for them what it is that constitutes
25 a suspicious activity?

1 I understand you're not a law
2 enforcement, and you don't have to show probable
3 cause, but it would help if we know what's
4 suspicious and what's not.

5 MR. KRAMER: Well, I presume that --
6 well, some of these plans are treated as
7 confidential for security reasons. But I'm pretty
8 sure this isn't the first time the compliance
9 staff has wrestled with this.

10 I think the point here is that the
11 protocol will probably define or can define this
12 more precisely if that's necessary. It's
13 something that the applicant and the compliance
14 staff would negotiate as the plan is submitted for
15 review and then approved.

16 HEARING OFFICER SHEAN: Sure. And I
17 think just as much as the Commission is concerned
18 about insuring the security of the facilities, it
19 certifies we are equally concerned as citizens who
20 have sworn to protect the Constitution of the
21 State of California and its citizens, that we're
22 not causing the applicants to contact law
23 enforcement and have them essentially come and
24 talk to a citizen who is doing what is suspicious
25 in one person's mind and not suspicious perhaps in

1 his own mind. So that we're not over-reaching in
2 the name of security what is otherwise lawful
3 activity.

4 So I just want to know, and maybe you
5 can help me out from the headquarters building, as
6 to what you mean by suspicious and we'll get to
7 that later.

8 That's all that I have, other than two
9 things. I would like to thank the applicant for
10 having arranged the use of this facility; and
11 certainly for the provision of all the
12 refreshments for those of us who came in early and
13 had no lunch and no coffee or no nothing. It was
14 great to see this when we arrived. And we thank
15 you very much for that.

16 Also like to thank our hosts, the
17 Imperial Irrigation District, for allowing us to
18 use the facilities. We've been here before and
19 it's great to be here. And fortunately we didn't
20 have to test your air conditioning as we have on
21 past occasions because it's fairly pleasant out
22 here today. But we want to thank the IID for
23 that.

24 Is there anything that either the staff
25 or the applicant need to bring to the Committee

1 before we adjourn this? We will discuss a few
2 procedural matters that we'll handle here after
3 the close of the record in just a second. But
4 making sure if there are any questions or comments
5 that we have them.

6 Or is there a member of the audience who
7 would like to address the Committee? This is your
8 time to do so.

9 And if you would, please, as you come
10 forward, just identify for our court reporter your
11 name and if it's a complicated spelling or
12 something, please provide him ultimately with --

13 MR. GONZALES: Ruben Gonzales, R-u-b-e-n
14 G-o-n-z-a-l-e-s. I'm a resident of Imperial
15 County. I'm here to support this particular
16 applicant. I know for a fact, I've been here in
17 this valley for many years, and geothermal energy,
18 the particular industry has provided wonderful
19 opportunities for local families here.

20 And I hope that you vote favorably on
21 this particular request. Thank you, sir.

22 HEARING OFFICER SHEAN: Thank you, sir.

23 COMMISSIONER PERNELL: Thank you.

24 MR. McFADDEN: I'm Bill McFadden. You
25 met, I believe, during the summer up in Calipat

1 and I had a chance to tour this project. This
2 project is going to make a real difference here in
3 Imperial County, and I'm here to support the
4 project.

5 A 185 megawatt is going to be a real
6 additional source for Imperial Irrigation
7 District. The jobs that it's going to create for
8 the subcontractors is over 550; 70 new jobs will
9 be generated from this.

10 CalEnergy pays over \$3 million taxes
11 right now. And I'm just encouraging your support
12 because due to our high unemployment here in
13 Imperial County, this will make a difference in
14 our growth and expanding our power energy
15 resource.

16 So I encourage you to support this
17 project. And I wholeheartedly support it on
18 behalf of a lot of the residents that are
19 unemployed. Also the NAACP has a real interest in
20 job creation and in expanding business
21 opportunities and working with subcontractors.

22 So, on behalf of all of us here in
23 Imperial County, I ask that you please support
24 this project. Thank you.

25 PRESIDING MEMBER KEESE: Thank you very

1 much.

2 HEARING OFFICER SHEAN: Thank you.

3 COMMISSIONER PERNELL: Thank you.

4 MR. POPEJOY: Yes, my name's Frank
5 Popejoy, P-o-p-e-j-o-y. And I'm here on behalf of
6 the El Centro Chamber of Commerce and Visitors
7 Bureau. I was fortunate enough to be up in
8 Calipat when you had your other hearing and I've
9 followed this along the way here.

10 And we strongly support this, not only
11 with job creation, but the renewable energy
12 source, the green energy source that we can tap
13 right here in our own valley to fit our needs.
14 Unlike the source we have across the border, this
15 is clean. And we really need that here. Not only
16 the job creation, but to help balance our energy
17 sources.

18 So we urge you to support this. Thank
19 you.

20 HEARING OFFICER SHEAN: Thank you.

21 COMMISSIONER PERNELL: Thank you.

22 PRESIDING MEMBER KEESE: Thank you very
23 much.

24 MS. GILLES: Hello. My name is Nichole
25 Nicholas Gilles, G-i-l-l-e-s. I'm the Executive

1 Director of the Brawley Chamber of Commerce. And
2 I'm here today representing 350 Chamber members
3 and approximately 7300 employees.

4 And today I would like to express my
5 support for the request of CE Obsidian Energy,
6 LLC, and their construction of 185 megawatt
7 geothermal power plant near the Salton Sea.

8 This project is extremely important to
9 Imperial County. As someone said before it's
10 estimated to result in new property taxes equaling
11 \$3 million. And Unit 6 will also bring much
12 needed jobs to Imperial County which has the
13 dubious distinction of having the highest
14 unemployment rate in the whole state.

15 Geothermal renewable power meets the
16 most stringent clean air standards in the United
17 States. It is the most environmentally friendly
18 energy in production, and it's just the type of
19 project that we need here in Imperial County.

20 And I really hope that you will support
21 this. Thank you very much.

22 HEARING OFFICER SHEAN: Thank you.

23 COMMISSIONER PERNELL: Thank you.

24 PRESIDING MEMBER KEESE: Thank you.

25 MR. OBERGFELL: Good evening; my name is

1 Edwin Obergfell, O-b-e-r-g, as in George, f as in
2 Frank, -e-l-l. And I'm here with the Imperial
3 Valley Regional Occupational Program. I'm here to
4 inform the members today of this hearing and the
5 public in general that IVROP, a local educational
6 workforce training organization, fully supports
7 the proposed CalEnergy geothermal power plant
8 construction project to be built near the Salton
9 Sea.

10 IVROP believes that the construction of
11 this unit will bring enormous and much needed
12 short-term and long-term economic development to
13 Imperial County.

14 The net results of this new CalEnergy
15 plant will generate millions of dollars, as has
16 been mentioned earlier, of new property taxes, 70
17 new full-time permanent jobs, hundreds of jobs
18 during construction and clean, renewable, reliable
19 and economic electricity.

20 In closing thank you very much for
21 allowing IVROP to be here. And we strongly
22 support this project.

23 HEARING OFFICER SHEAN: Thank you.

24 PRESIDING MEMBER KEESE: Thank you very
25 much.

1 COMMISSIONER PERNELL: Thank you.

2 MR. REYES: Eric Reyes, R-e-y-e-s,
3 Outreach Coordinator for United Farmworkers -- a
4 collaborative between United Farmworkers,
5 Environmental Defense, Latino Issues Forum and
6 Forest Community Research. My main work has been
7 on the water transfer, but the whole deal is to
8 make models for our community that we can draw
9 upon.

10 And we mainly had to draw upon excellent
11 models of collaboration between environmental
12 interests, labor interests and private investment
13 interests that makes the economy better from
14 outside of the Imperial Valley.

15 And this will provide an excellent model
16 where the agreement was made in compliance with
17 labor and environmental interests to begin with.
18 And that's a first I think in Imperial Valley, as
19 well. Not to mention the amount of investment
20 coming in here. And with the low per capita
21 income geothermal will provide much better jobs
22 for the people that we are trying to represent and
23 improve our community.

24 Thank you.

25 HEARING OFFICER SHEAN: Thank you.

1 COMMISSIONER PERNELL: Thank you.

2 PRESIDING MEMBER KEESE: Thank you.

3 HEARING OFFICER SHEAN: Anybody else? A
4 couple more. We're going to run the gauntlet.
5 We've been told the only place we get out is in
6 San Diego, so we're going to try to run the fire
7 line.

8 (Laughter.)

9 MR. HANKS: Good luck. We ran it all
10 summer here.

11 My name is Jim Hanks. I'm the
12 Superintendent of Calipatria Unified School
13 District. And I stand before you proudly as the
14 largest recipient of this project.

15 I'd like to add that I'm a native of
16 Imperial County, so I've been around for a long
17 time. And I'd just like to share with you what
18 this means to our District.

19 In 1995 we passed a bond to completely
20 redo our schools with a bonding capacity increased
21 by about threefold with geothermal, it was a big
22 help. Previously any consideration of revamping
23 our District was just out of the question because
24 the bonding capacity was so low.

25 I'd just like to add that at the time of

1 passing this bond the average assessed valuation
2 of the homes in our District was 20,000. That is
3 not a mistake. 20,000. So you can see with the
4 help of geothermal being located in our District
5 we were able to pass a \$24 million bond and
6 completely redo our schools. The construction is
7 currently underway. So that's been a big plus for
8 us.

9 The geothermal represents over 70
10 percent of our tax base, and is very important to
11 us with the bonds that we continue seeing the
12 prosperity of the geothermal to pay these bonds
13 off.

14 I'd also like to add that when we passed
15 this bond we met absolutely no resistance from the
16 geothermal industry, which was very encouraging to
17 us.

18 We also entered into numerous
19 partnerships with geothermal. We have developed
20 because of the technology that we have seen in
21 geothermal we've been able to develop first class
22 technology classes at the high school, which are
23 second to none in the State of California.

24 We've also been able to provide
25 scholarships to our students. Plus the geothermal

1 industry has been the major supporter of our
2 locator program, especially our gold medal winning
3 welding classes that consistently, as verified by
4 the audience here, Calipatria consistently wins
5 the gold medal in this area in the State of
6 California.

7 I'd also like to add that with the
8 addition of this plant it would take us to a basic
9 status which would be a tremendous boost to a
10 community the size of Calipatria, which has had
11 economic prosperity pass it by for a number of
12 years.

13 On a side note, that the good-paying
14 jobs that are offered at geothermal gives our
15 students a chance to stay here. It is very
16 disheartening over the years, and I've been in the
17 District for several years, to see at homecomings
18 the drain of brain power that we lose out of our
19 community because of the inability to get
20 competitive jobs. To see doctors, lawyers, et
21 cetera, that have to leave our community because
22 of the lack of prosperity here.

23 In a nutshell I'd like to just make it
24 very plain, that this geothermal is our hope.
25 Without it, I just don't see the town really

1 continuing to prosper. Twenty years ago if you
2 would have came through Calipat you would have
3 said it was dead on the vine. And we have seen it
4 revive, see it start to show signs of growth. And
5 the main player in all of this has been
6 geothermal. They have been excellent neighbors to
7 us.

8 Thank you.

9 PRESIDING MEMBER KEESE: Thank you.

10 COMMISSIONER PERNELL: Thank you.

11 HEARING OFFICER SHEAN: Thank you.

12 MR. COUCHMAN: Sam Couchman,
13 representing the County Office of Employment
14 Training, Work Force Investment Board Member and
15 Veteran Services Director here for the County.

16 Briefly, we're in support of this
17 project primarily because of the job creation
18 aspect of the project. We have worked closely
19 with CalEnergy in the past to recruit people from
20 the local area for the jobs that they create here
21 in our local area. And we feel that this is an
22 economic boon to our area, especially the north
23 end.

24 And we're very pleased to support this
25 and work with them in terms of their hiring and

1 the job creation that it creates and the economic
2 benefit that it brings to Imperial County.

3 Thank you very much.

4 COMMISSIONER PERNELL: Thank you.

5 HEARING OFFICER SHEAN: Thank you.

6 PRESIDING MEMBER KEESE: Thank you. Let
7 me ask a quick question. Do we have anybody here
8 who's opposed to the project?

9 (Laughter.)

10 PRESIDING MEMBER KEESE: I see a -- back
11 there someplace. Okay, anybody else, quickly to
12 tell us that they're in support? Who it is who's
13 in support.

14 MS. MALLORY: I promise I'll be brief.
15 My name is Anne Mallory; I'm Assistant
16 Superintendent of Imperial County Office of
17 Education. And I'm here tonight representing my
18 boss, County Superintendent John Anderson.

19 We're here to express our strong support
20 for this very vital project, not only for the
21 economic reasons, as you've heard, but I'm going
22 to speak to the educational piece.

23 Prior to working for the County Office
24 of Ed I was a superintendent in a school district
25 for about eight years. And during that time, and

1 since I was at the County, I also see, on a bigger
2 picture level, the amount of support that
3 geothermal provides to education.

4 And collaboration, as we all know, is
5 key to economic survival, especially in these
6 tough times. And geothermal is there, not only as
7 my esteemed colleague, Mr. Hanks, just explained
8 in the Calipatria District, but I can say
9 firsthand I've seen it in other districts, too.
10 Not only in supporting us by sending practicing
11 scientists and engineers into classrooms,
12 volunteering and donating furniture and resources,
13 both monetarily and in terms of goods to us.

14 And all those things are essential
15 because we serve some of the most needy children
16 in the State of California here in Imperial
17 County. And so we are very much in support and we
18 thank you for your time in listening to us.

19 PRESIDING MEMBER KEESE: Thank you.

20 COMMISSIONER PERNELL: Thank you.

21 HEARING OFFICER SHEAN: Thank you

22 MR. KELLEY: Tim Kelley, K-e-l-l-e-y;
23 I'm the Executive Director of the Brawley Economic
24 Development Commission. Our 25 board members and
25 100 members support this project.

1 It's one of the most important projects
2 in our County today. It will help to diversify
3 our economy. And with the 80 full-time high-wage
4 jobs it will make a positive improvement to our
5 County.

6 We have the distinction of being one of
7 the most productive agricultural areas in the
8 world, and with this project and many more in the
9 future, we have the potential of exporting the
10 greatest amount of neutrons that this world has
11 ever seen.

12 Thank you.

13 HEARING OFFICER SHEAN: Thank you.

14 COMMISSIONER PERNELL: Thank you.

15 PRESIDING MEMBER KEESE: Thank you.

16 MR. VALENZUELA: My name is George
17 Valenzuela; I'm a resident of Imperial County. A
18 union carpenter for seven years. I just felt the
19 need to come up and say a couple words.

20 I would have liked if this project would
21 have been union, but if it doesn't, you know,
22 prevailing wage is also real good. I worked here
23 in Imperial County for seven years as a union
24 carpenter. But most of the time I had to drive to
25 San Diego or to L.A. for work, because, you know,

1 there's not many union jobs around.

2 So it would be a good thing, you know,
3 for the union carpenters here if it was union so
4 they won't have to drive so far.

5 Thank you.

6 PRESIDING MEMBER KEESE: Thank you.

7 HEARING OFFICER SHEAN: Thank you.

8 COMMISSIONER PERNELL: Thank you.

9 PRESIDING MEMBER KEESE: Is that it?
10 Well, -- no? Quickly.

11 (Laughter.)

12 COMMISSIONER PERNELL: You can't get
13 away that fast.

14 MR. GROGAN: By god, I been in this
15 business about 30 years. Quick is not a
16 terminology that I have used in the development of
17 geothermal.

18 Gentlemen, in 1975 we began the studies
19 down here by the University of Riverside looking
20 at the development of geothermal and the
21 development of a geothermal element to our general
22 plan.

23 The Salton --

24 COMMISSIONER PERNELL: Could you state
25 your name -- sorry --

1 MR. GROGAN: Larry Grogan, the City of
2 El Centro.

3 We estimated the reserve somewhere
4 between 3000 and 5000 megawatts of power for the
5 Salton Sea. If you look at the environmental
6 studies I believe that would be confirmed.

7 You know this probably is the greatest
8 unfulfilled potential in California. In the time
9 that CalEnergy has announced this power plant, two
10 power plants have been built south of the border
11 using air polluting hydrocarbon base.

12 Mr. Signorotti asked that I be gentle in
13 my comments. But the ISO has announced last week
14 that there was probably going to be a shortfall,
15 possibility of shortage, an energy shortage again
16 next summer. And certainly in '05.

17 So here we are again looking at the
18 potential of a shortfall, and while this permit is
19 still being processed two power plants have been
20 built south of the border.

21 All I would ask, gentlemen, is that at
22 some point let's quit permitting the damn thing
23 and start building.

24 Thank you.

25 HEARING OFFICER SHEAN: Thank you.

1 PRESIDING MEMBER KEESE: All right, --

2 HEARING OFFICER SHEAN: Any additional
3 comments?

4 PRESIDING MEMBER KEESE: -- seeing none,
5 it's really a pleasure for Commissioner Pernell
6 and myself and our staff to work on projects where
7 we get a uniform support, and where we see
8 collaboration between applicant and staff. It
9 makes our job much easier.

10 If you read the documentation you'll see
11 that aside from the two items that we've discussed
12 today, on which there was some I won't say
13 dispute, but we hadn't quite resolved coming
14 together, there's another 22, 23, 24 issues that
15 the staff and the applicant worked on diligently,
16 that's been worked on by the public diligently in
17 the workshop process.

18 So, we come to a final day here and to
19 one who had walked in and just looked at that part
20 they might think we didn't have much work to do.
21 It's a complicated process; I'm really pleased, as
22 I say, to see that it goes smoothly.

23 Commissioner Pernell.

24 COMMISSIONER PERNELL: Thank you,
25 Chairman Keese. I would just echo what you said.

1 And also to add that I want to thank the community
2 for standing up for this project. And as Chairman
3 Keese has said, we don't see that often.

4 But it's a good feeling to know that
5 we're contemplating a project that will not only
6 be beneficial to the state, but to the Imperial
7 Valley and as well as the applicant.

8 So, we can't, you know, we like it but
9 we can't make a decision now. We have to look at
10 all of the facts, which is why I'm a little
11 hesitant here.

12 But again, I want to thank all of the
13 residents for coming out and supporting this. And
14 the staff for having conversations with the
15 community about the jobs and about school and
16 employment and all of those things.

17 So, with that, and if we can't get a
18 plane, we might have to be staying here. So, --

19 (Laughter.)

20 COMMISSIONER PERNELL: -- I'll make mine
21 short. But, again, thank you very much.

22 HEARING OFFICER SHEAN: Let me just ask
23 the staff and the applicant whether you think a
24 briefing period is needed for this?

25 MR. CARROLL: We do not believe a

1 briefing period is needed.

2 MR. KRAMER: I don't think we need a
3 brief on legal issues. We're just, at some point
4 in the process, as we've discussed, we'll have to
5 report on the biological opinion --

6 HEARING OFFICER SHEAN: All right, so
7 long as it's reporting. I just wanted to make
8 sure whether we thought we needed a period to do
9 that.

10 So, at this point let's consider the
11 matter submitted.

12 MR. KRAMER: One housekeeping issue. I
13 think in most cases we don't consider the
14 executive summary of the FSA to be a part of the
15 FSA as such. But in this case it provides
16 additional evidence to justify override. So I
17 wanted to make sure that that's a part of the
18 record, as well.

19 HEARING OFFICER SHEAN: If it was a part
20 of your initial offering it's in.

21 MR. KRAMER: Okay, I --

22 HEARING OFFICER SHEAN: And I understood
23 it to be because you had expressed that thought
24 before.

25 All right, so we will consider the

1 matter submitted. The Committee will then begin
2 its deliberations and formulation of a proposed
3 decision. It will take a little while to get this
4 out. It's a telephone book size document, maybe
5 not quite, but close.

6 And that will be released for a public
7 comment period. We will notify not only the
8 official parties to the proceeding, but there will
9 be a newspaper notification. If you'd like to get
10 a copy of it we'll have it available either online
11 at the Commission's website, available in a
12 printed form, or also available on a CD ROM disc.

13 And so, if you would like, please feel
14 free to comment on it.

15 And the timeline is kind of hard to
16 exactly estimate, because we have a couple of
17 things sort of working in tandem here. But we're
18 going to try to get to it as absolutely quickly as
19 possible.

20 And so with that, unless there's
21 something further, I'll --

22 PRESIDING MEMBER KEESE: The van leaves
23 in three minutes.

24 (Laughter.)

25 HEARING OFFICER SHEAN: Thank you very

1 much.

2 PRESIDING MEMBER KEESE: Thank you.

3 COMMISSIONER PERNELL: Thank you, again.

4 (Whereupon, at 5:35 p.m., the hearing

5 was adjourned.)

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CERTIFICATE OF REPORTER

I, JAMES RAMOS, an Electronic Reporter,
do hereby certify that I am a disinterested person
herein; that I recorded the foregoing California
Energy Commission Hearing; that it was thereafter
transcribed into typewriting.

I further certify that I am not of
counsel or attorney for any of the parties to said
hearing, nor in any way interested in outcome of
said hearing.

IN WITNESS WHEREOF, I have hereunto set
my hand this 5th day of November, 2003.

PETERS SHORTHAND REPORTING CORPORATION (916) 362-2345